University Of Alberta
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INVESTIGATING SCHOOL MATHEMATICS

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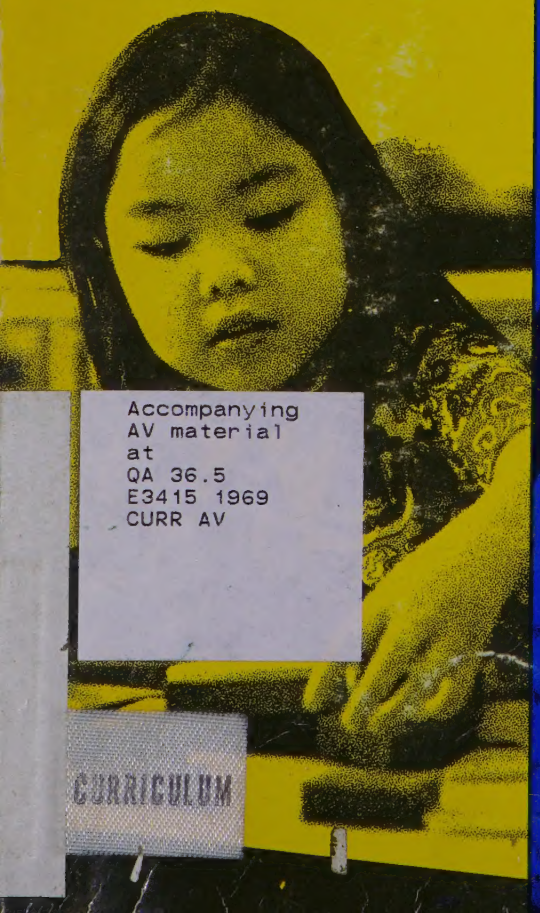
LET'S DO



LET'S TALK

LET'S USE

Accompanying
AV material
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CURRICULUM

Investigating School Mathematics

ROBERT E. EICHOLZ

PHARES G. O'DAFFER

CHARLES R. FLEENOR

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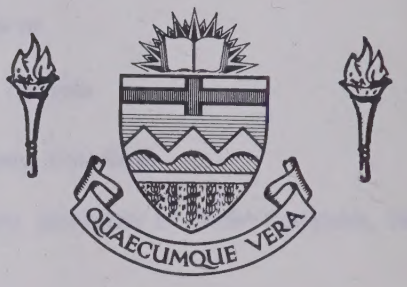

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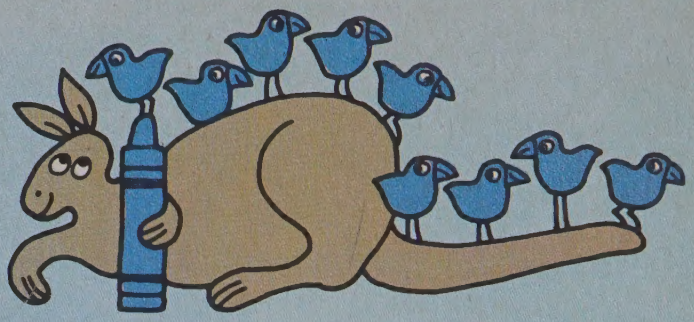
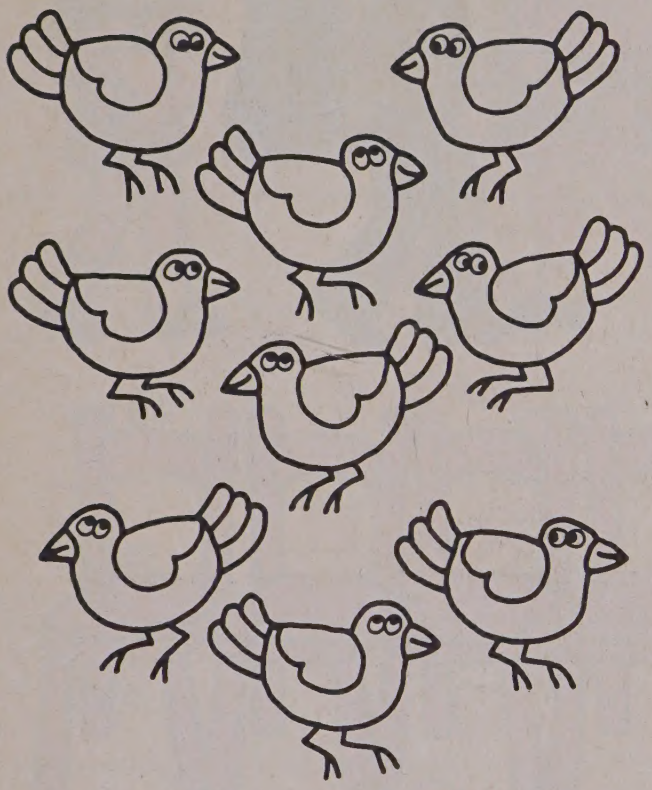
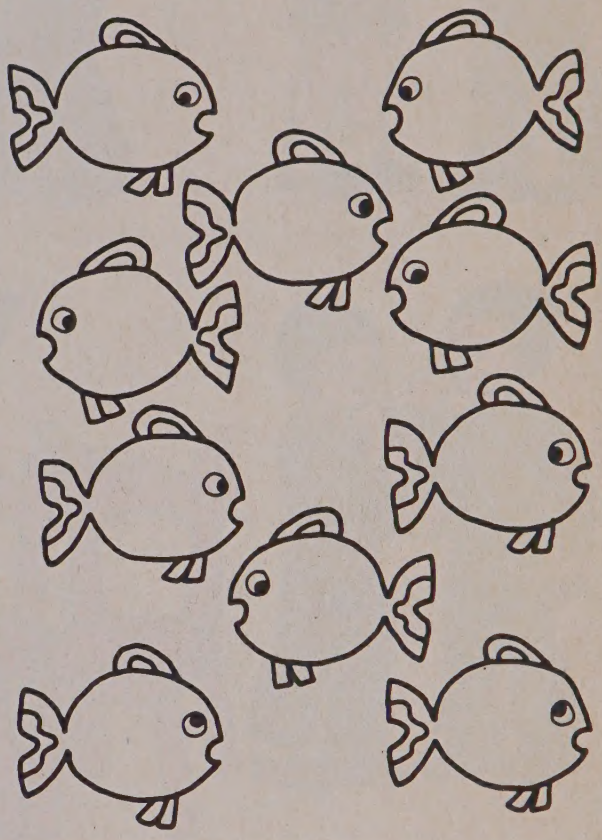
Let's do

Color the set of 9

Color the set of 10







Can you draw and color a set of 12?

2594061

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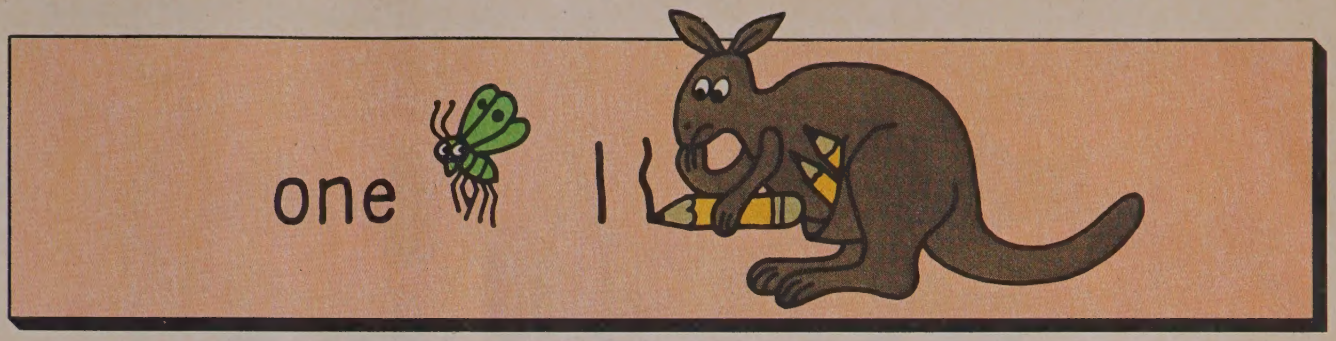
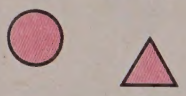
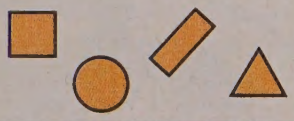
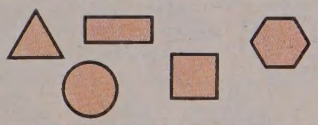
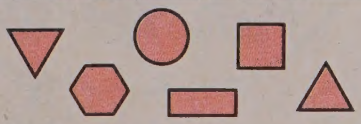
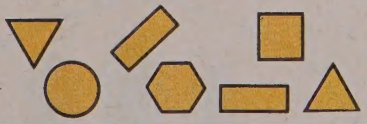
Let's talk



Write the numerals.

zero		0	0			
one		1	1			
two		2	2			
three		3				
four		4				
five		5				
six		6				
seven		7				
eight		8				
nine		9				

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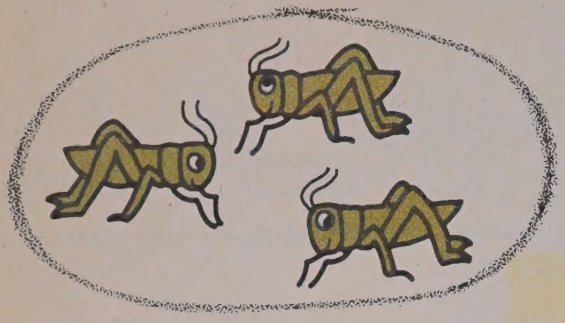
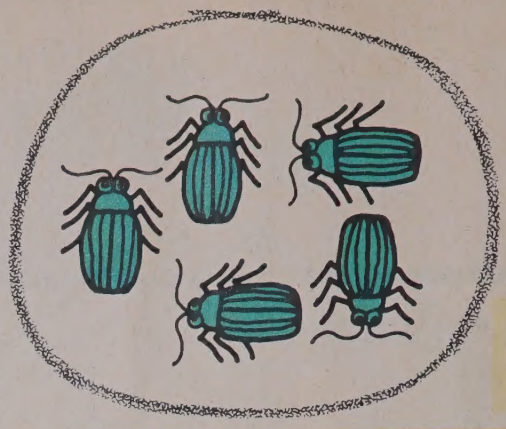
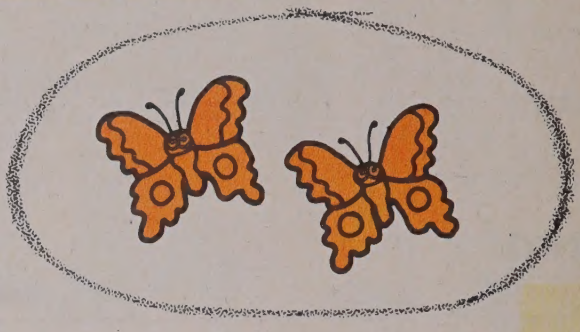
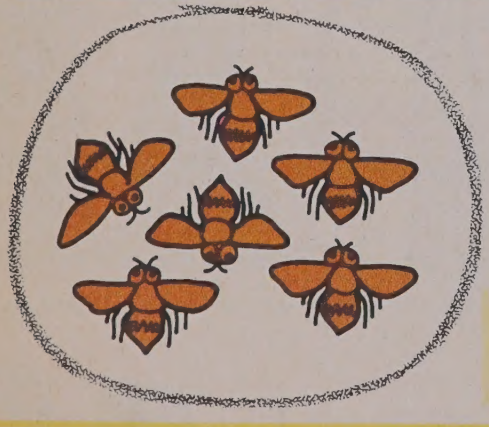
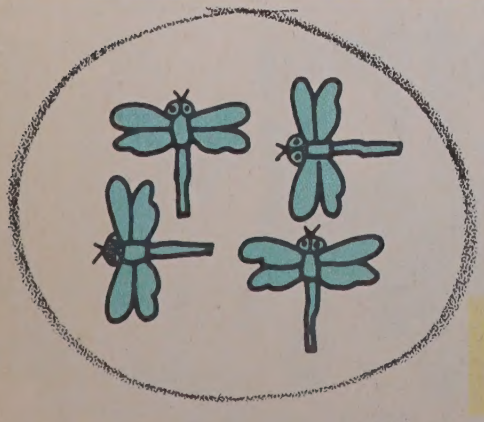
Give the number for each set.

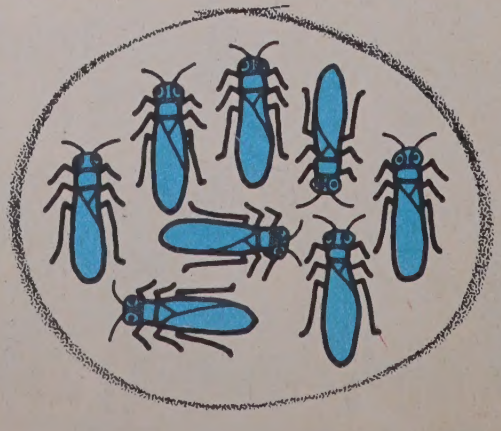


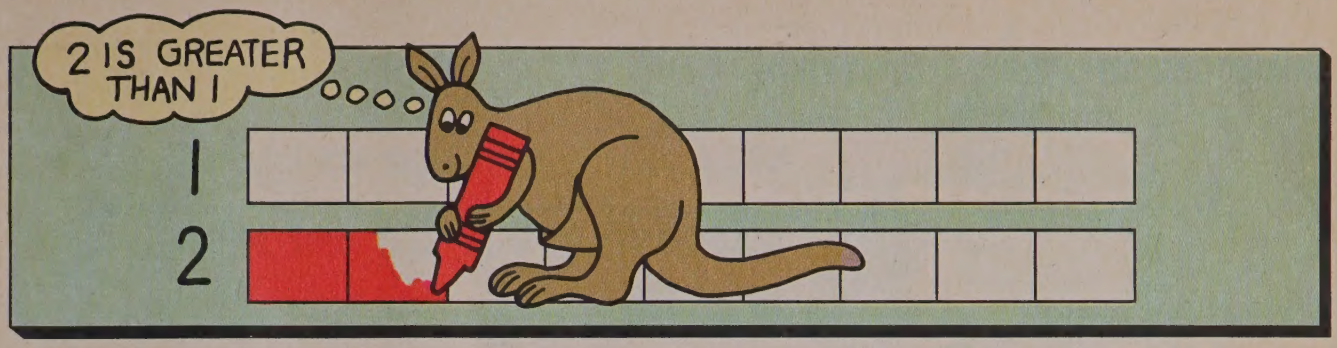




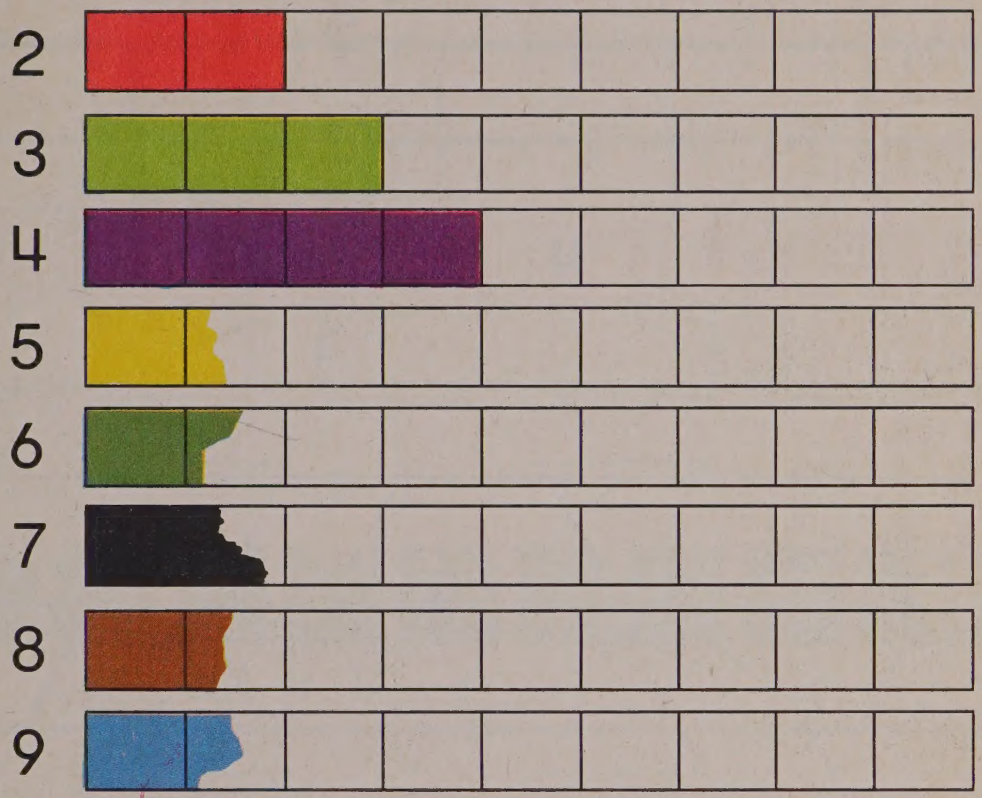








Complete the coloring.



Which number is greater?

3	(5)	7	1	8	9
(6)	2	0	4	6	5

Which number is less?

(2)	8	3	7	6	9
5	1	4	0	8	5

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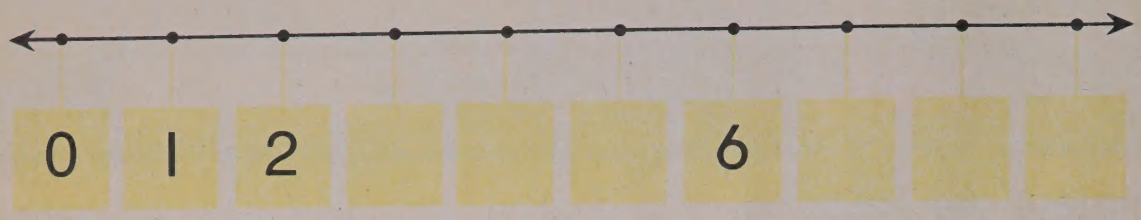
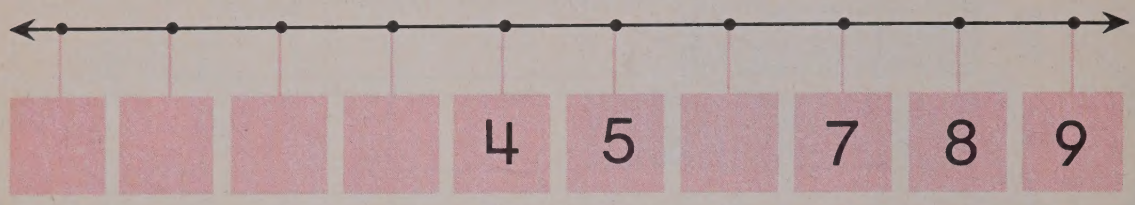
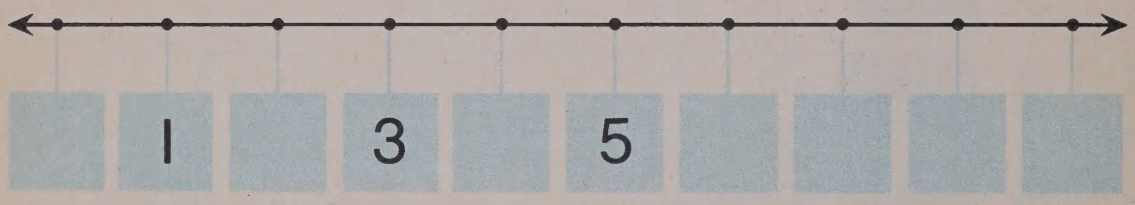
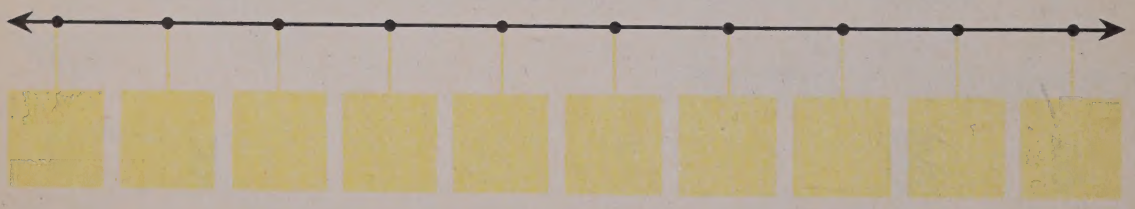
Give the missing numerals.









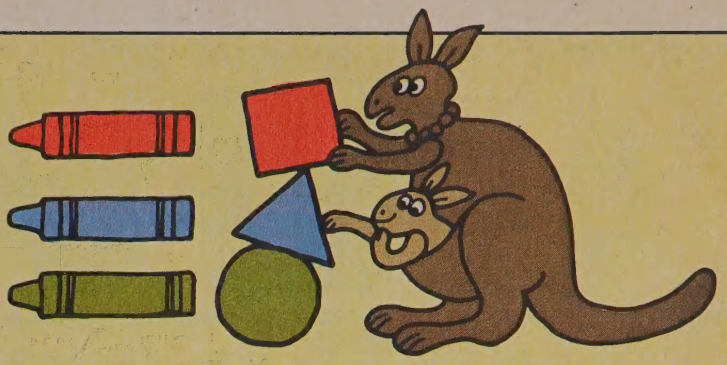
Can you write the numerals in backward order?

9 8 7 _____ _____ _____ _____ _____ _____ _____

Color **ten** squares

Color **ten** triangles

Color **ten** circles



How many tens in all?

How many more?

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How many? Write the numerals.

2 tens and 4

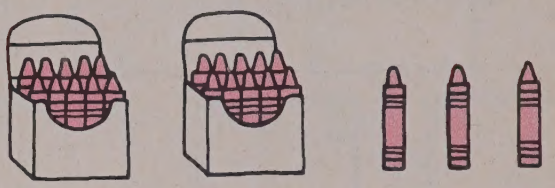
We write 24 .

____ tens and ____

We write ____ .

____ tens and ____

We write ____ .

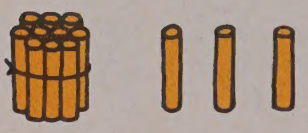


____ tens and ____

We write ____ .

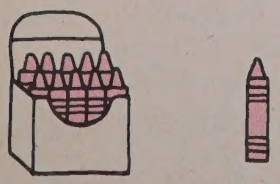
____ tens and ____

We write ____ .



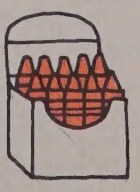
____ tens and ____

We write ____ .



____ tens and ____

We write ____ .



____ tens and ____

We write ____ .

How many?

3 tens and 4

____ tens and ____

____ tens and ____

____ tens and ____

____ tens and ____

____ tens and ____

____ tens and ____

____ tens and ____

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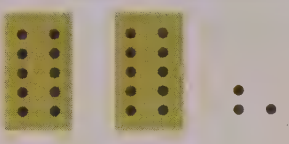
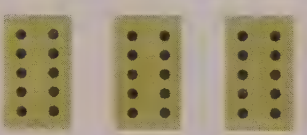
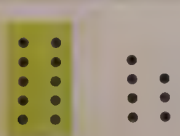
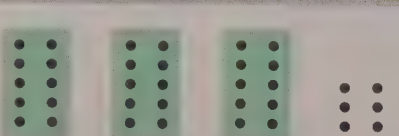
How many?



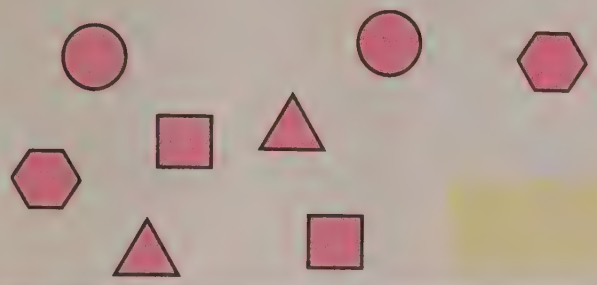


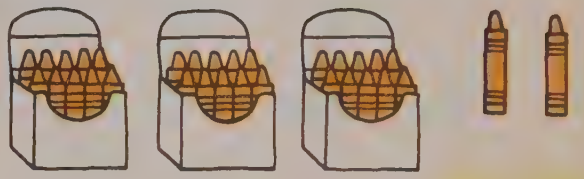




Show you know

How many?





Give the missing numerals.

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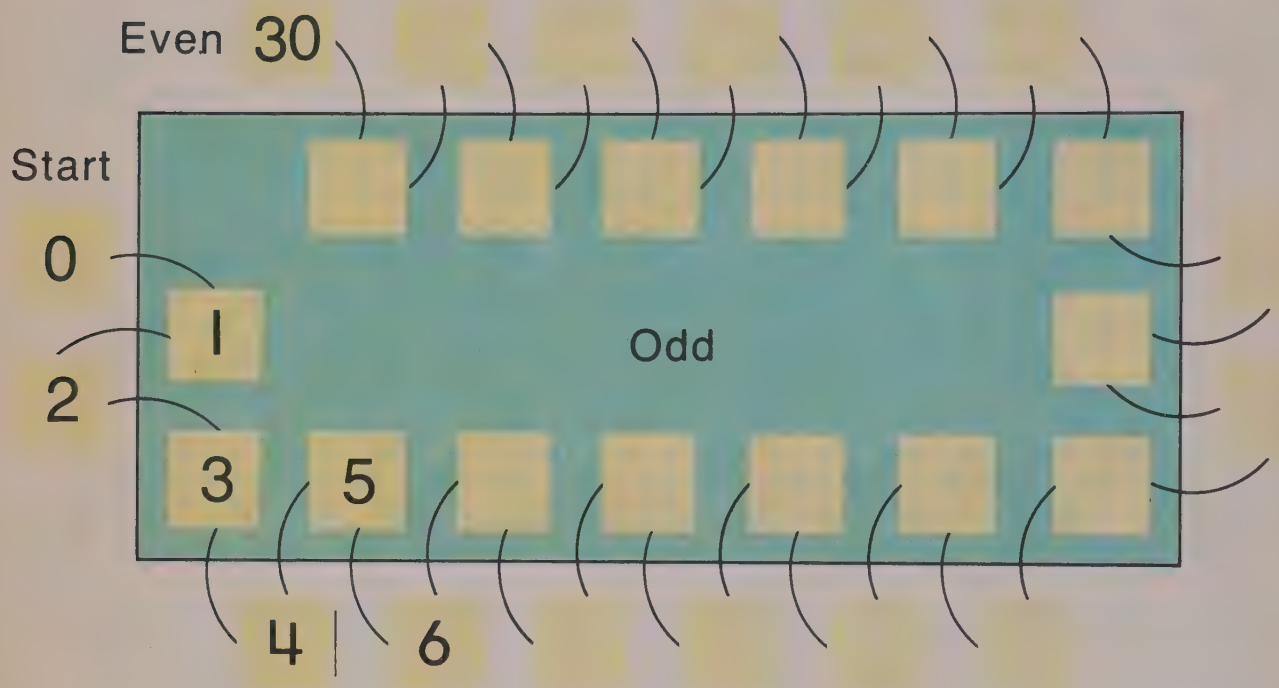
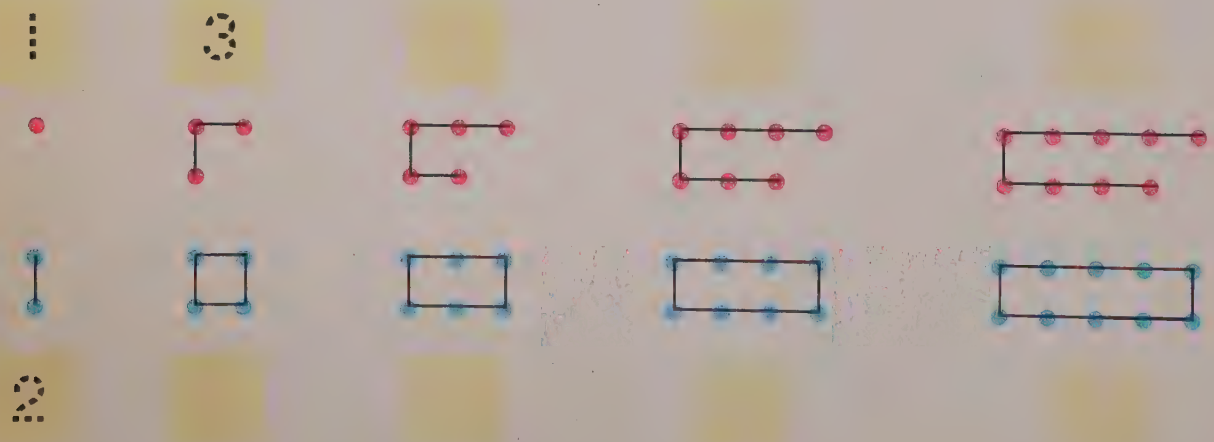
Let's have fun



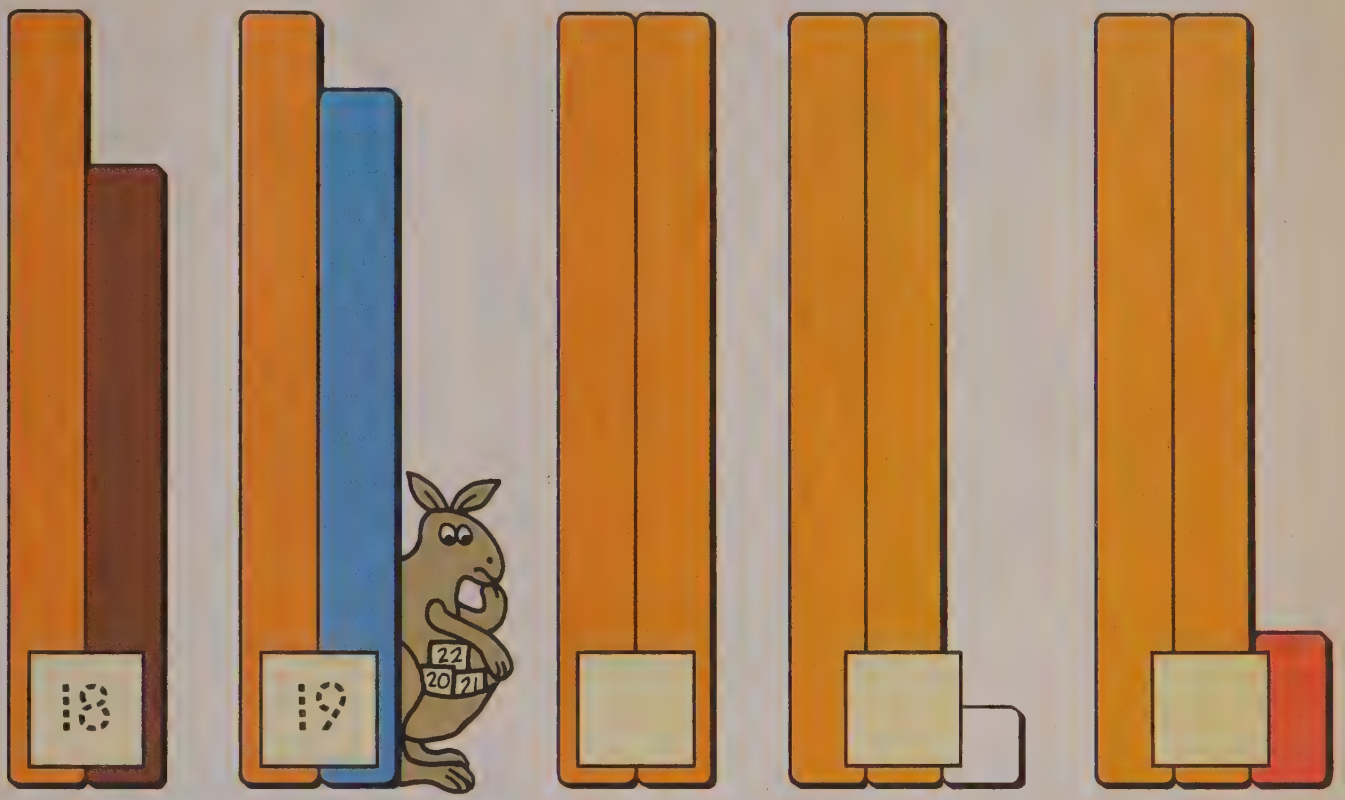
How many dots?



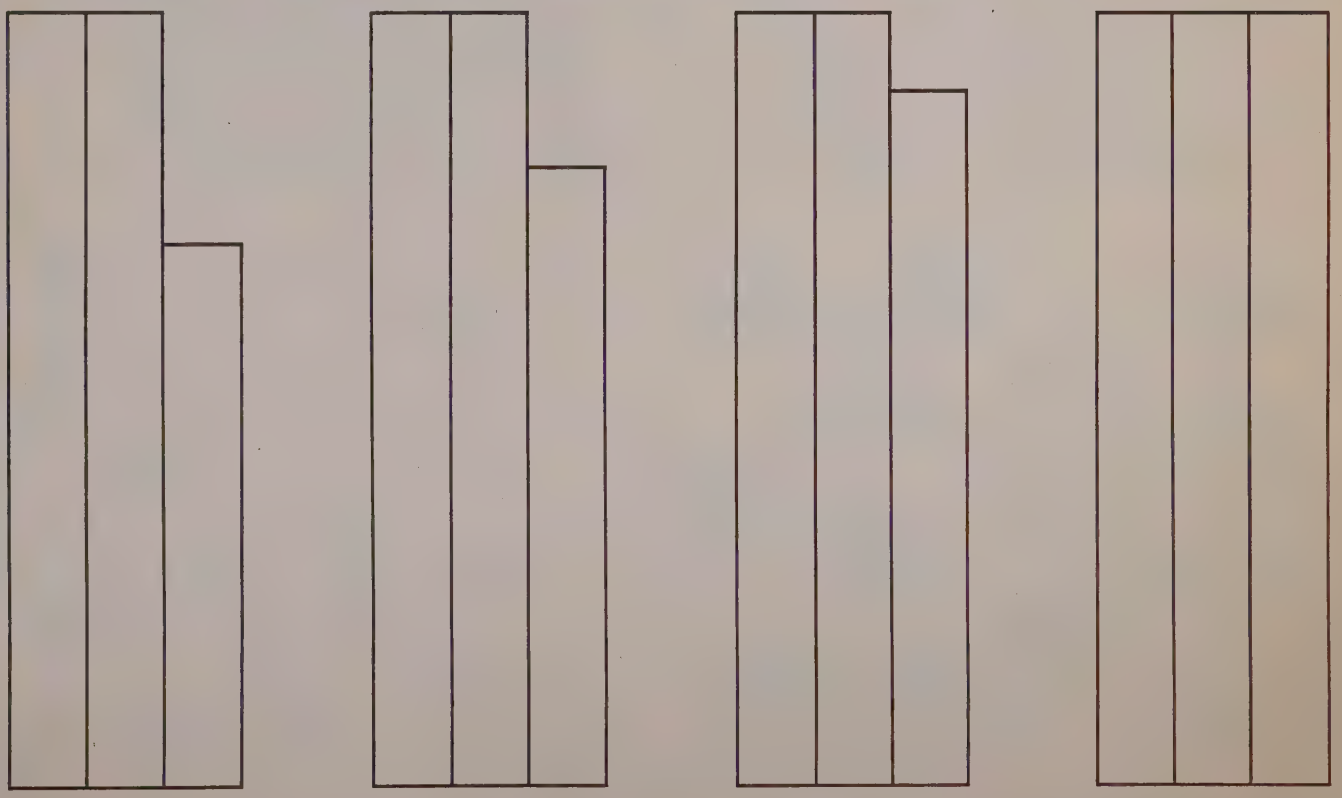
Which sets above have an even number?

Let's do

Give the missing numbers.



Color these strips.



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Let's talk


1
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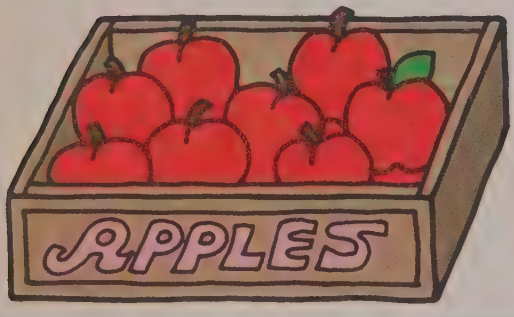
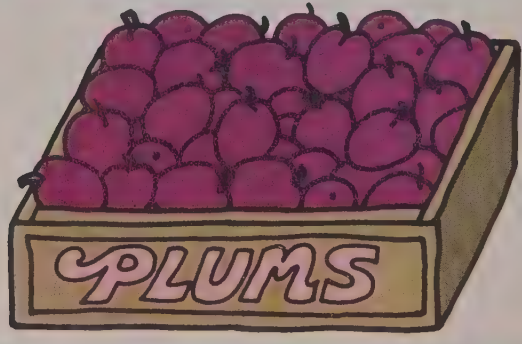
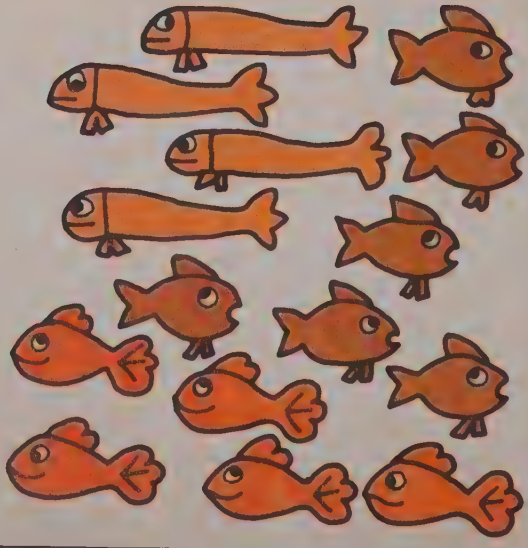
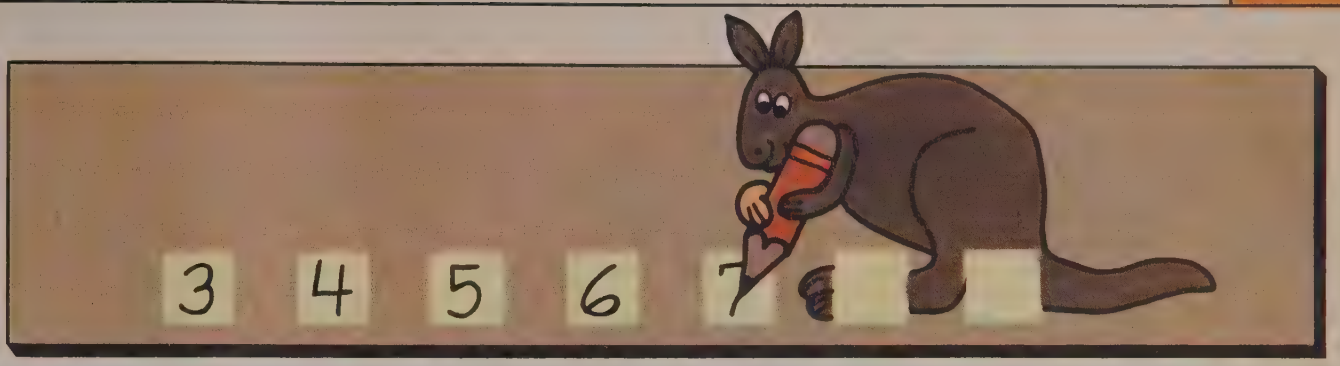

APPLES


PLUMS





Write the missing numerals.

0	1	2	3	4	5	6		
5	6	7	8				12	13
12	13	14						20
16	17					22	23	
25	26	27			30	31		
29	30	31						
36	37	38	39					
48				52	53	54		
57	58	59						

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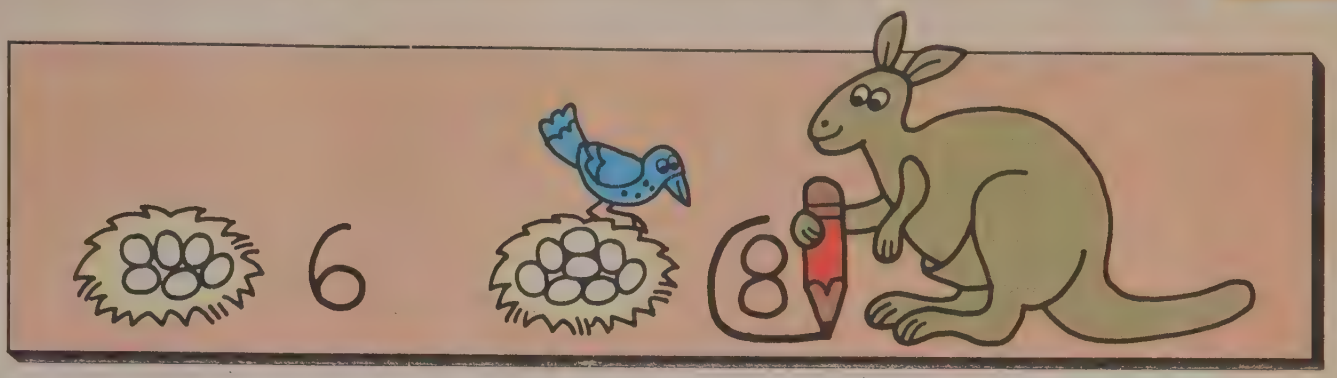
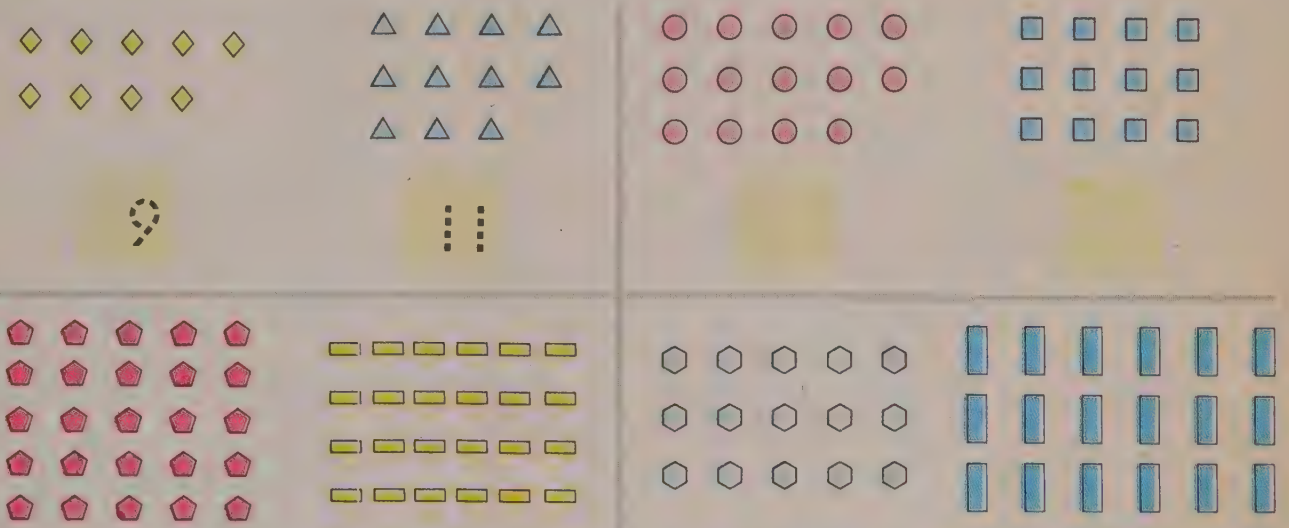
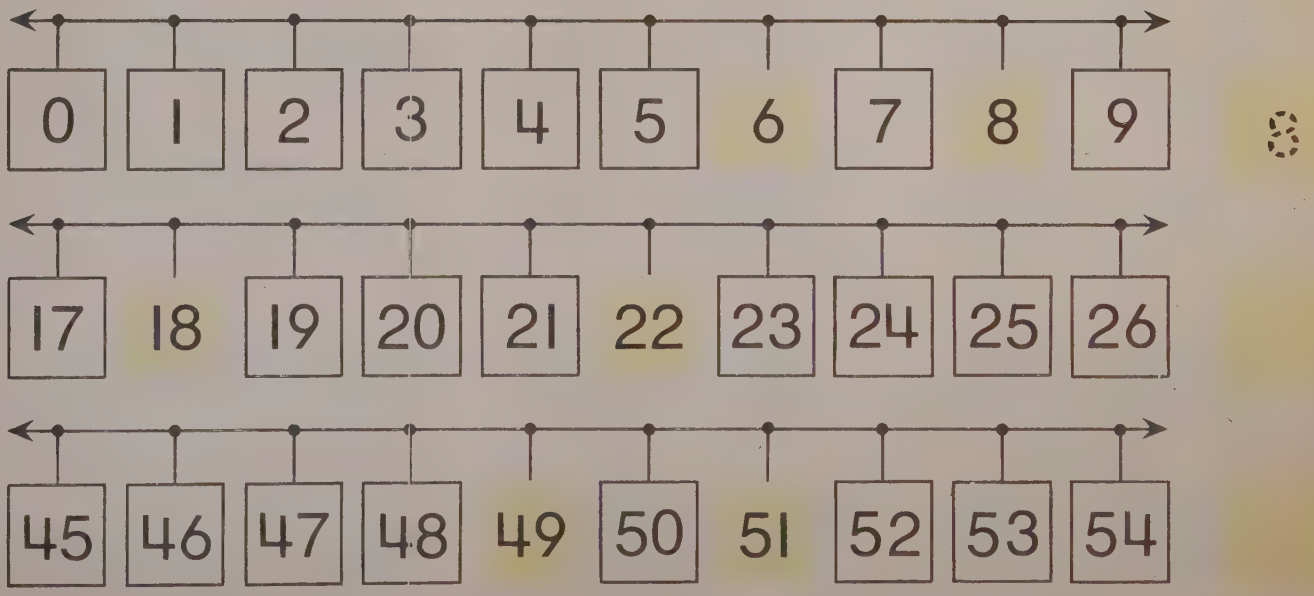
Climb the mountain.
Write the missing numerals.



How many in each? Ring the larger.



Which number is larger?



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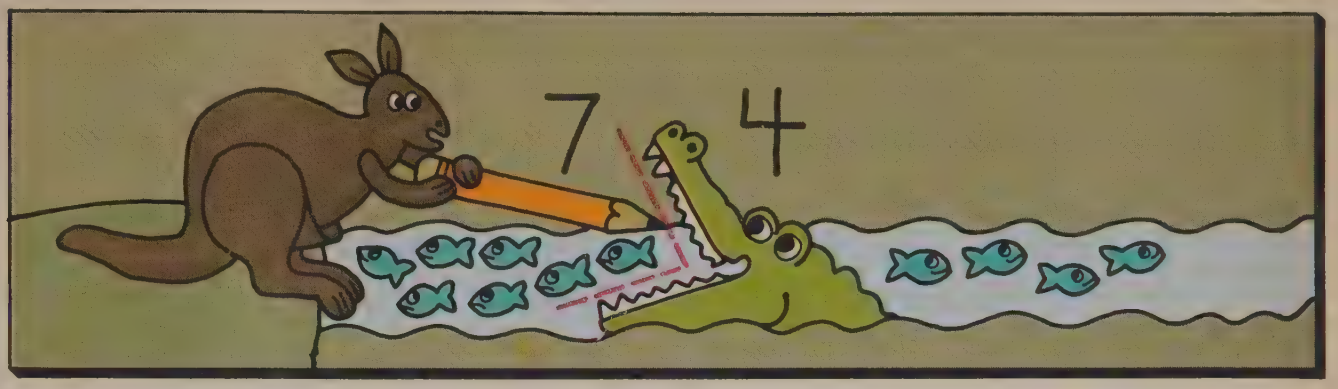
Which number is greater?

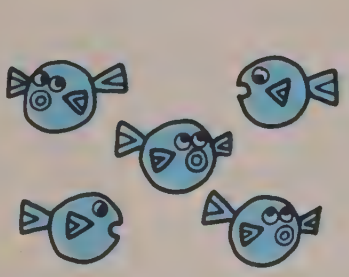
5	(8)	10	7	18	20
(6)	2	10	8	19	20
7	1	10	9	21	20
7	9	10	11	22	20
3	9	10	12	23	20

Which number is less?

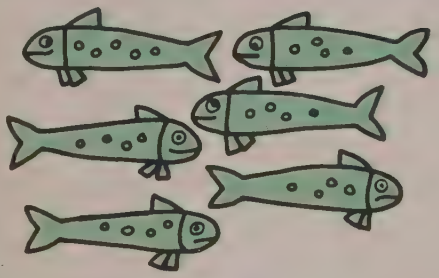
(14)	17	27	30	25	28
(15)	17	28	30	27	24
16	17	29	30	26	36
18	17	31	30	35	25
19	17	32	30	28	32

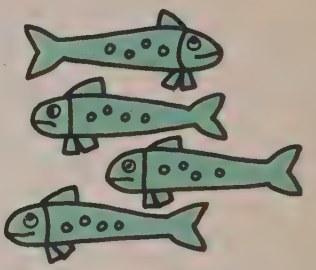


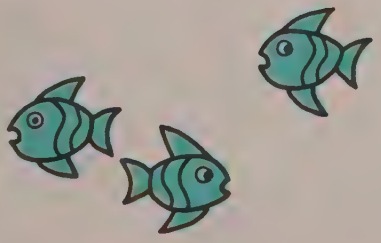
Tell how many fish. Then put the "mouth" in the

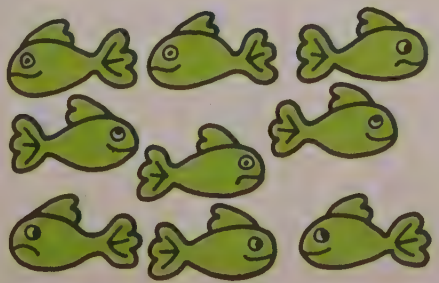


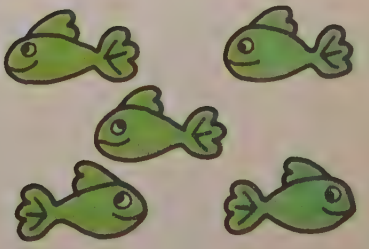
5 < 8











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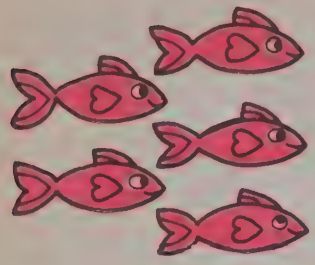
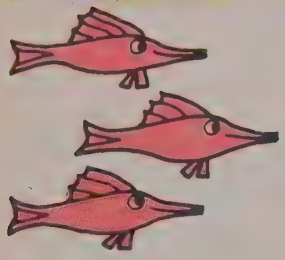
How many in each set?



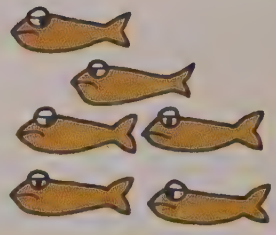
5 is greater than 2

5 > 2



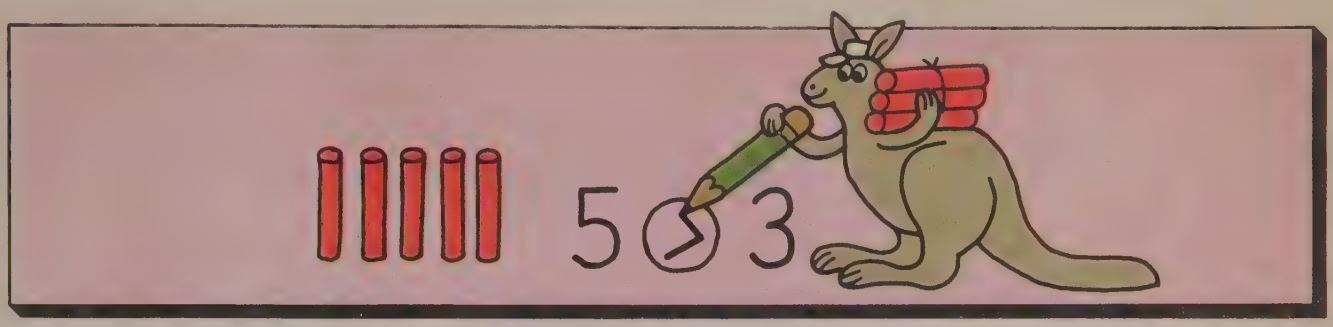
____ is less than ____

____ < ____



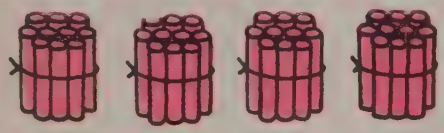
Put > or < in each

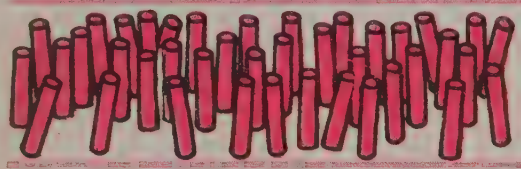
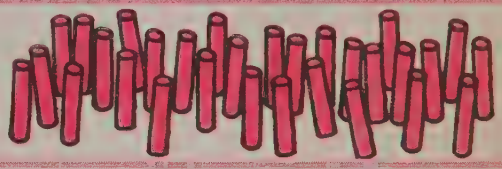
7 > 2	6 < 9	10 > 4
4 < 5	8 > 7	5 > 1
3 < 10	4 > 3	7 < 8
1 < 2	0 < 6	10 > 9
13 < 14	15 > 10	12 > 0
10 < 20	18 > 17	16 < 17



Put > or < in each


4 ◯ 3



4 tens ◯ 3 tens



40 ◯ 30


40 > 10		20 ◯ 50		80 ◯ 90	
40 ◯ 20		50 ◯ 20		70 ◯ 90	
30 ◯ 40		50 ◯ 40		60 ◯ 90	
10 ◯ 40		50 ◯ 60		90 ◯ 60	
10 ◯ 50		50 ◯ 70		90 ◯ 70	
10 ◯ 60		80 ◯ 50		70 ◯ 80	

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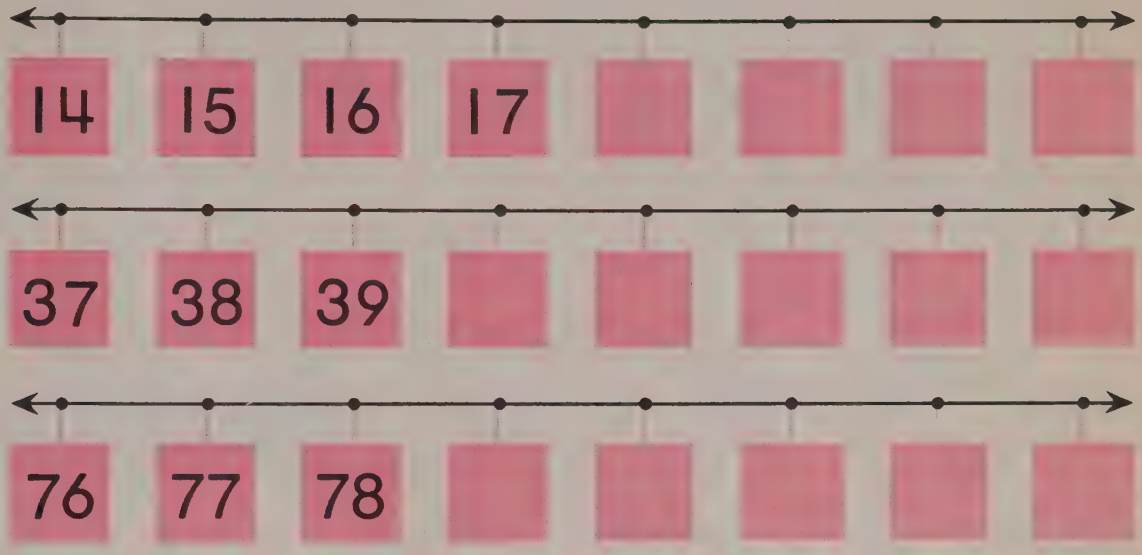
Put > or < in each

40 ◯ 30	50 ◯ 20	30 ◯ 80
45 ◯ 35	51 ◯ 21	36 ◯ 86
47 ◯ 37	56 ◯ 26	39 ◯ 89
2 ◯ 6	7 ◯ 4	5 ◯ 1
32 ◯ 36	27 ◯ 24	65 ◯ 61
52 ◯ 56	87 ◯ 84	95 ◯ 91
39 ◯ 40	19 ◯ 20	84 ◯ 78
40 ◯ 39	18 ◯ 19	56 ◯ 62
50 ◯ 49	20 ◯ 19	73 ◯ 80
49 ◯ 50	21 ◯ 19	44 ◯ 39
48 ◯ 51	24 ◯ 19	57 ◯ 60

Show you know

Write the missing numerals.



Put > or < in each ◯.

9 ◯ 2	12 ◯ 15	20 ◯ 18
3 ◯ 8	16 ◯ 11	20 ◯ 19
0 ◯ 5	11 ◯ 12	20 ◯ 21
6 ◯ 2	13 ◯ 10	20 ◯ 22
7 ◯ 6	9 ◯ 11	38 ◯ 40
8 ◯ 0	19 ◯ 20	38 ◯ 41
1 ◯ 4	19 ◯ 18	42 ◯ 39

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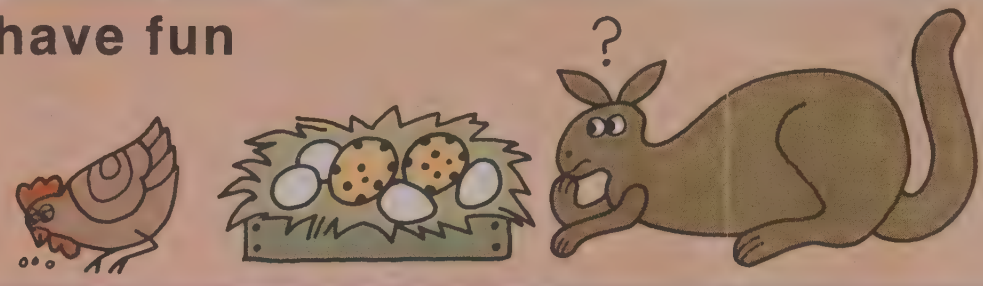
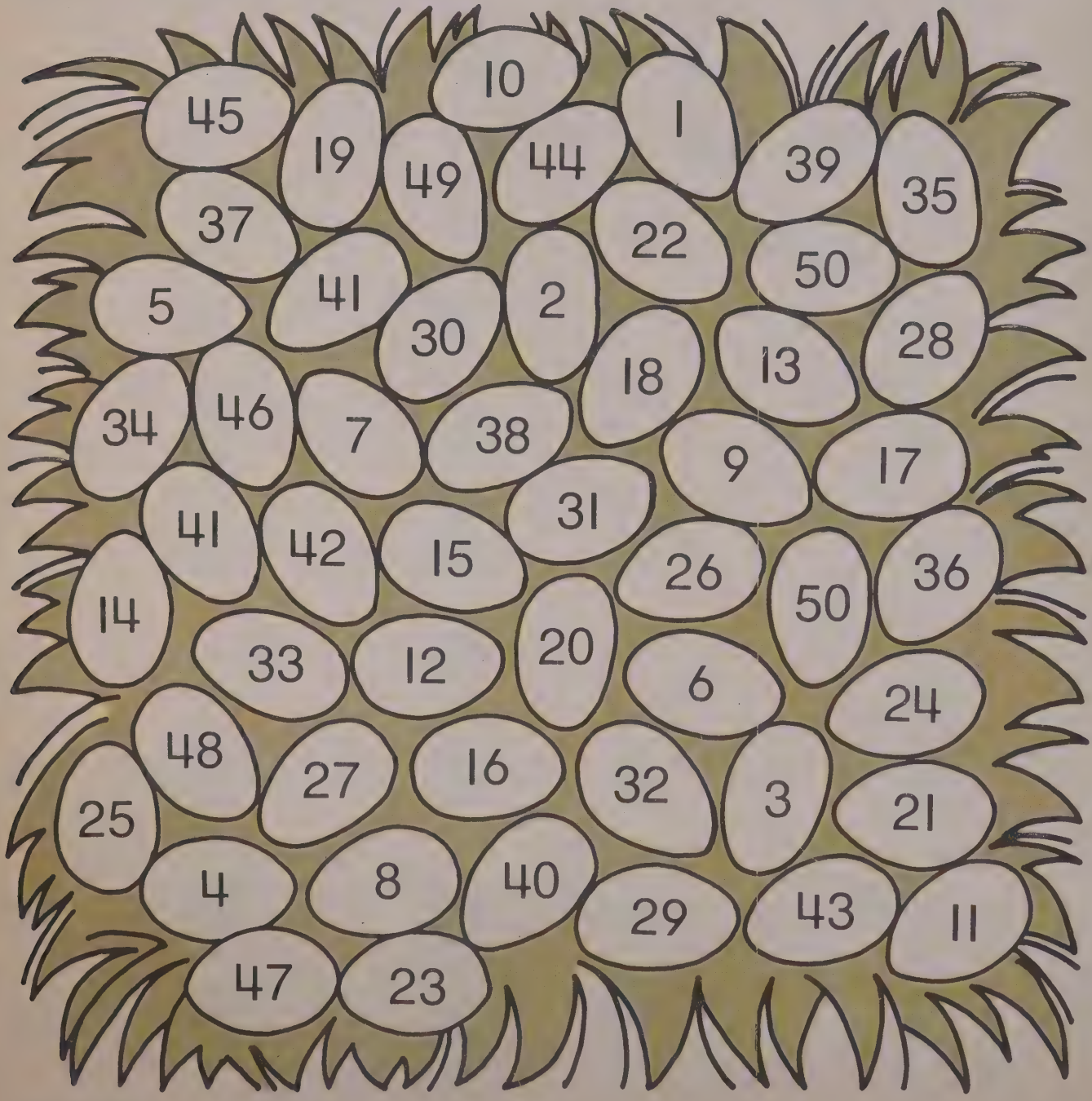
Let's have fun



Two of the eggs do not belong in this nest.
What are their numbers?

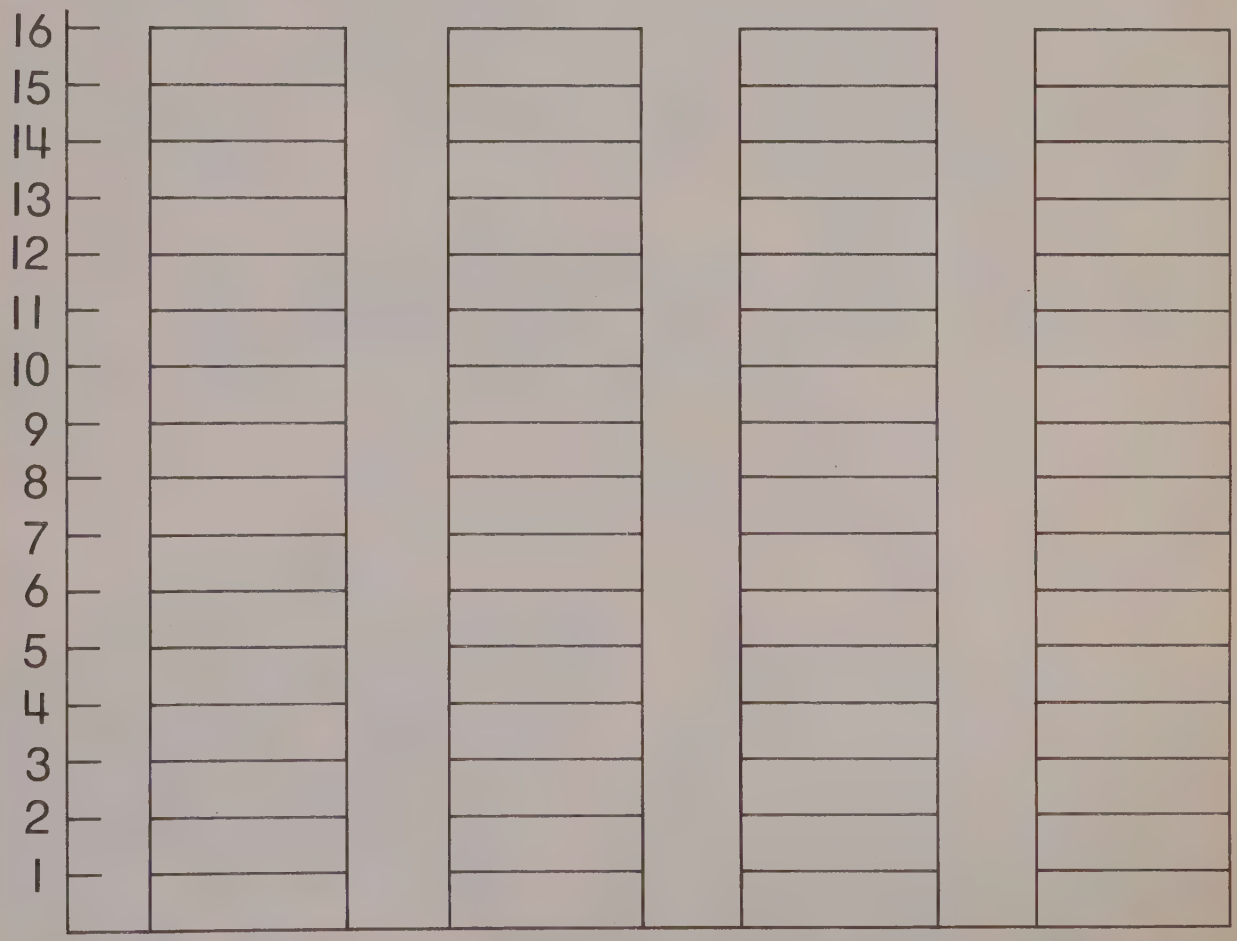


Counting puzzle

Let's do

Penny	Nickel	Dime	Quarter
			
1 cent	5 cents	10 cents	25 cents
1¢	5¢	10¢	25¢

Can you complete the **graph** to show how many "coins" you have?





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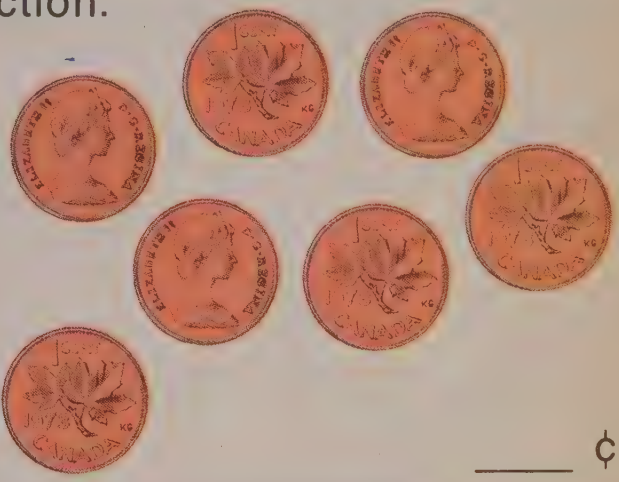
Let's talk


25¢
MODEL AIRPLANE
MODEL AIRPLANE
WHISTLES 9¢
SPINNERS
10¢ EACH
MARBLES 3¢ EACH
7¢
7¢
7¢
MINI-CARS 15¢ EACH
KITES 12¢

Find the value of each coin collection.



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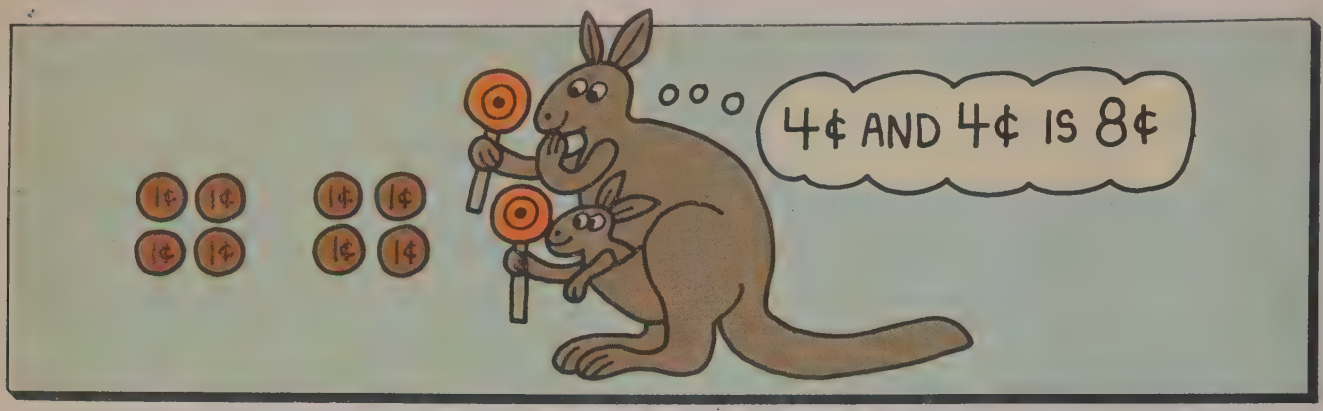
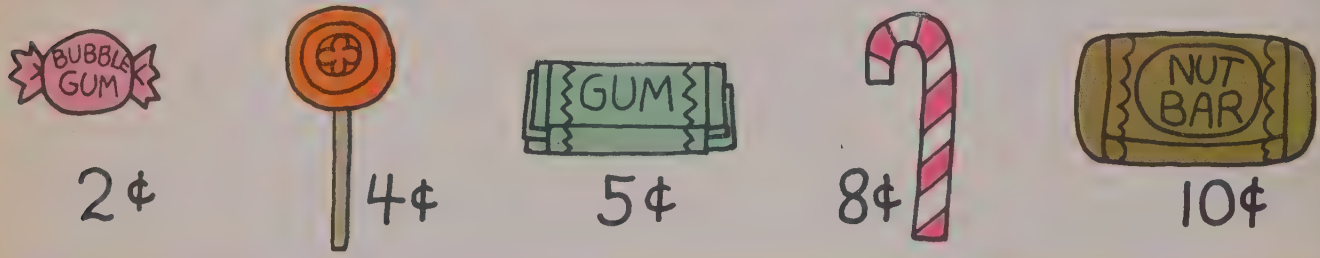
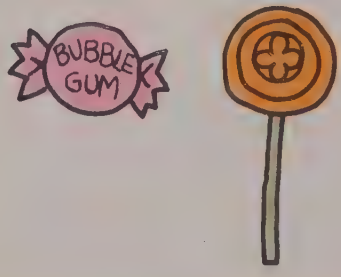




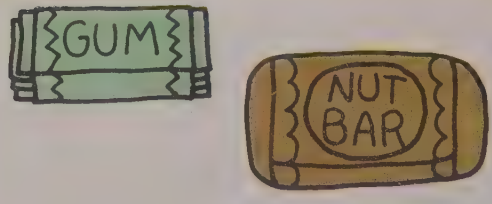
Find how much for both.

7 ¢



____ ¢

____ ¢



____ ¢

____ ¢

____ ¢

Complete the table.

Had	Earned	Have
		_____¢
		_____¢
		_____¢
		_____¢
		_____¢

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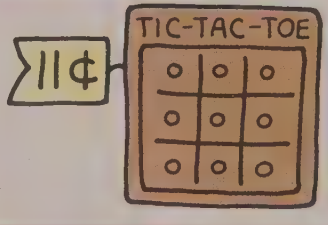
Find the change.

Had	Bought	Change
		3 ¢
		¢
		¢
		¢
		¢

Show you know

Find the value of each collection.

____ ¢

____ ¢

____ ¢

____ ¢

Give the final amount.

Had	Earned	Have
		____ ¢

Had	Bought	Change
		____ ¢

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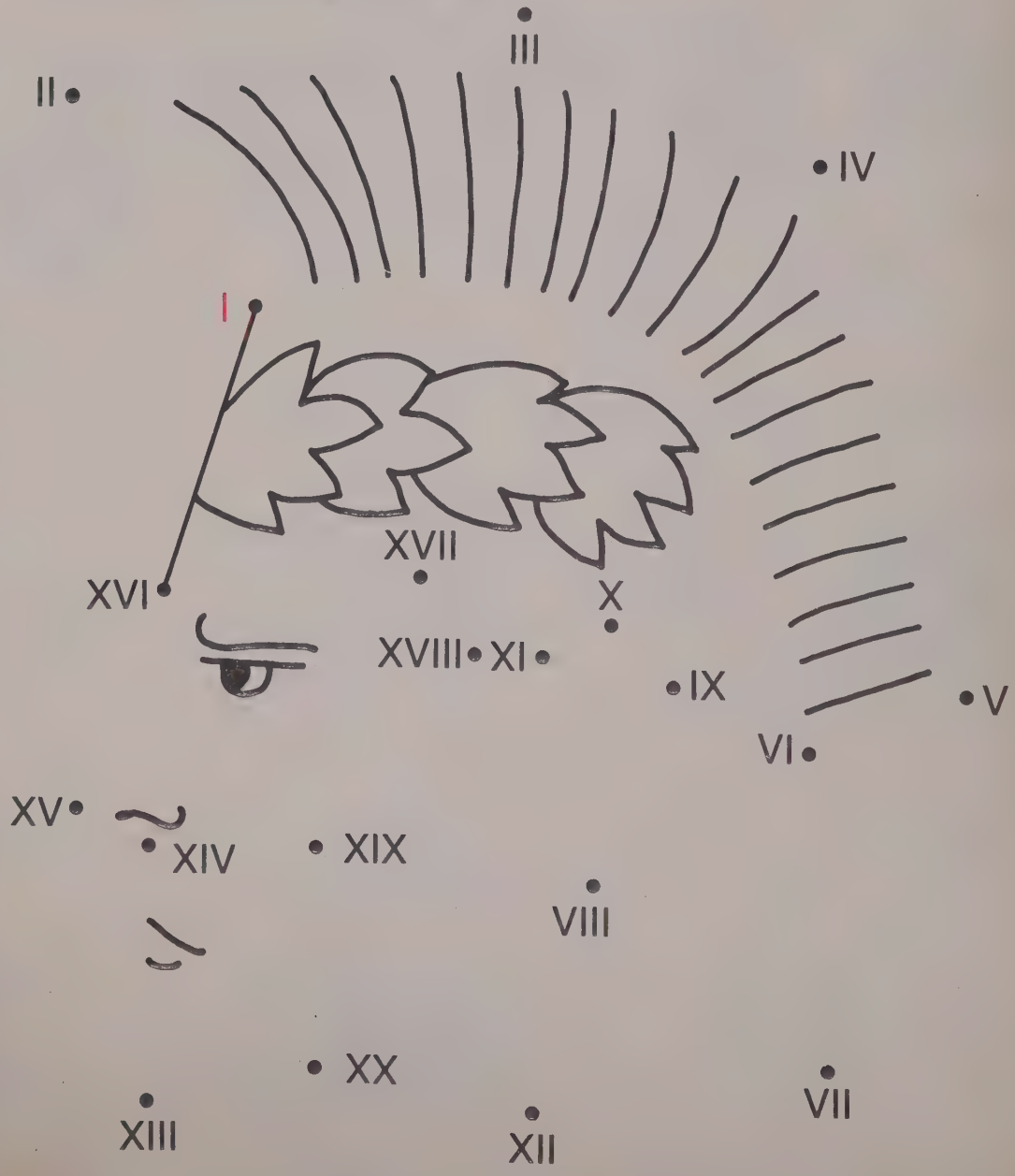
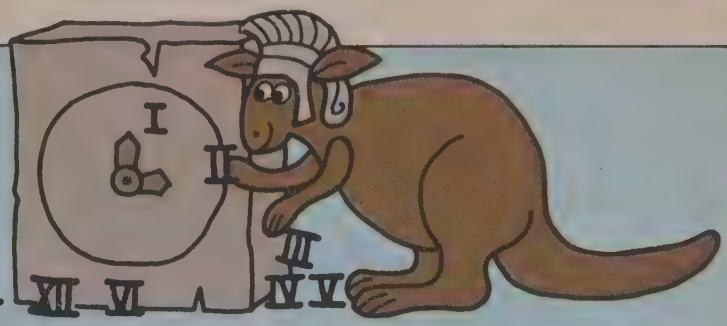
Let's have fun

Can you use the code to help you complete the dot picture?
This "code" uses **Roman numerals.**

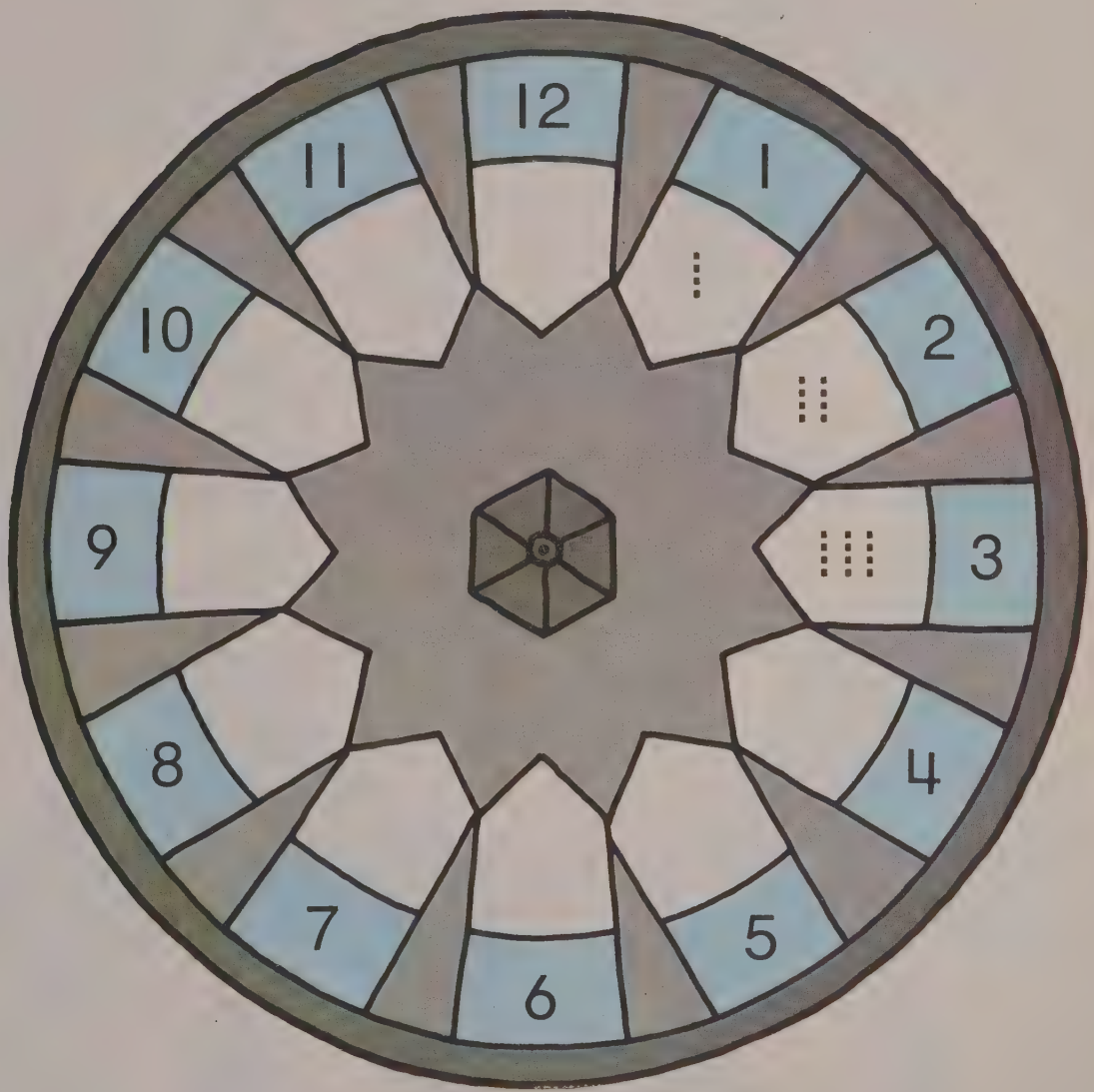
1	I
2	II
3	III
4	IV
5	V
6	VI
7	VII
8	VIII
9	IX
10	X
11	XI
12	XII
13	XIII
14	XIV
15	XV
16	XVI
17	XVII
18	XVIII
19	XIX
20	XX



Let's do



Can you put numerals on your clock face?



Roman numerals

I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
1	2	3	4	5	6	7	8	9	10	11	12

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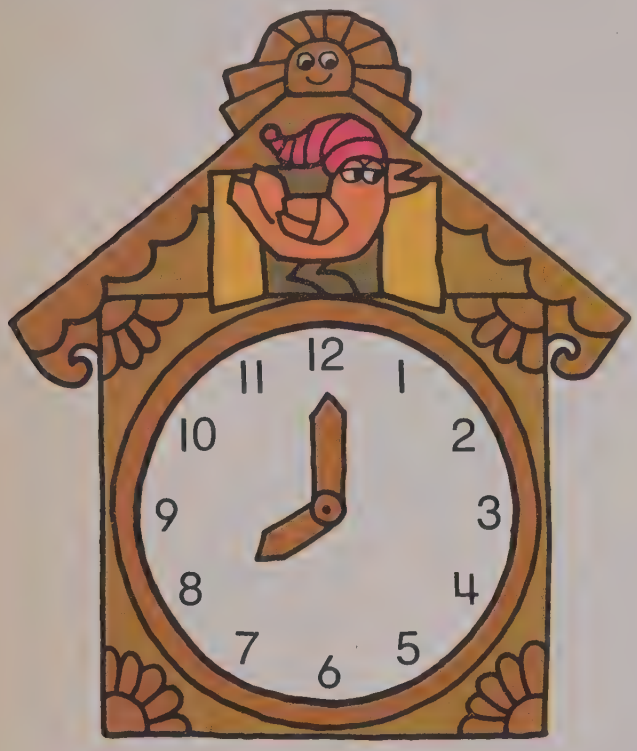
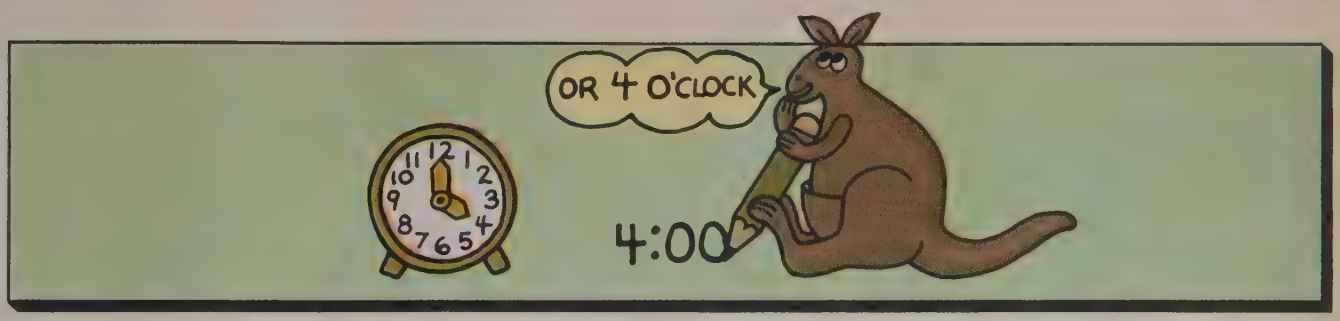
Let's talk

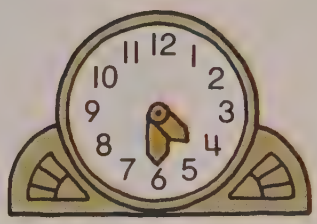
Can you tell what you might be doing at these times?





Give the time in two different ways.

4 o'clock
4:00



half past 4
4:30

8 o'clock
8:00

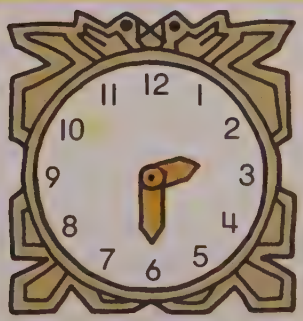
____ o'clock

_____

____ o'clock

_____

half past 8
8:30



half past ____

_____

half past ____

_____

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Match each clock with the correct time.

9:30

8:30

9:00

10:30

10:00

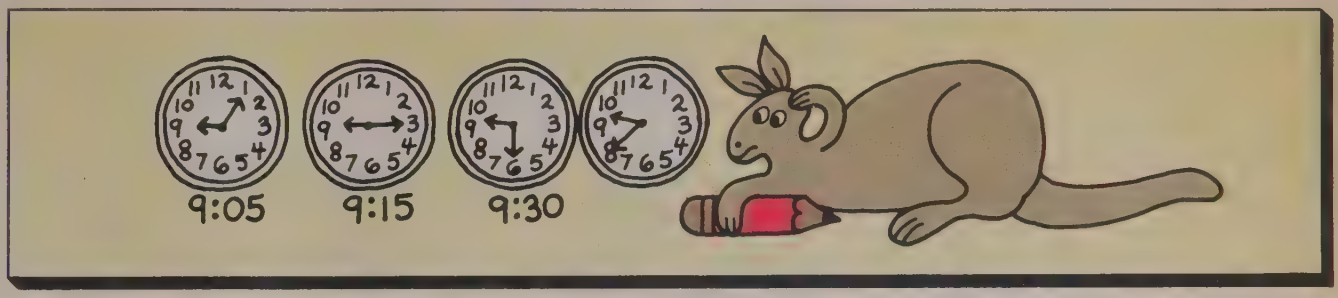
4:00

4:30

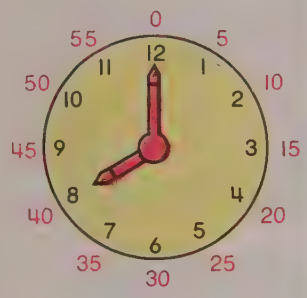
2:30

3:00

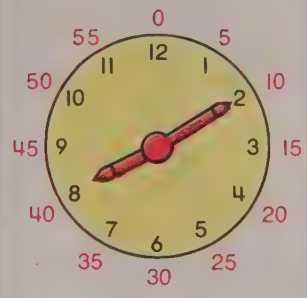
3:30



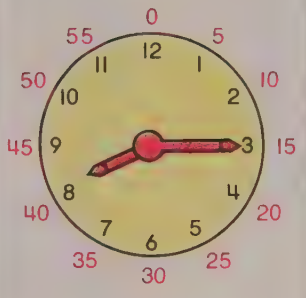
Study the examples.
Then give the time.



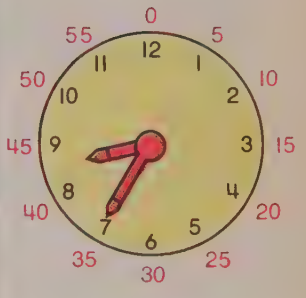
8:00



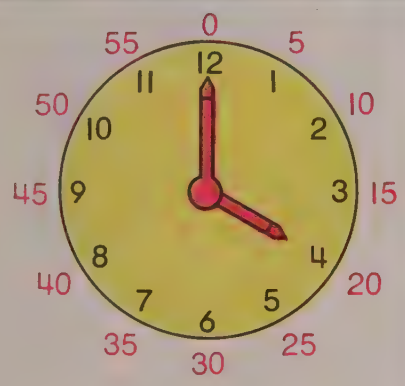
8:10

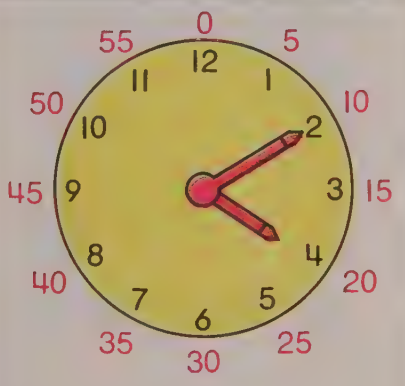


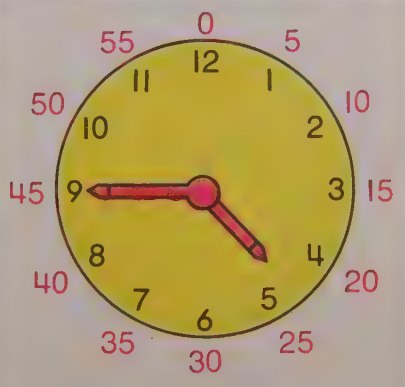
8:15



8:35







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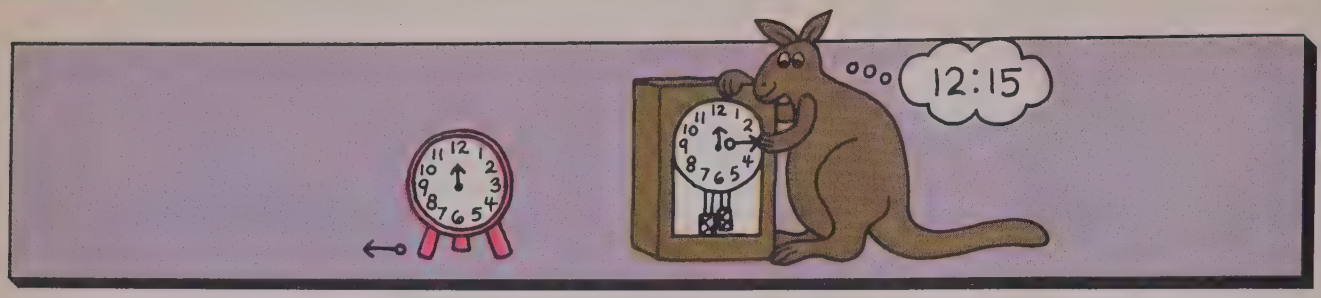
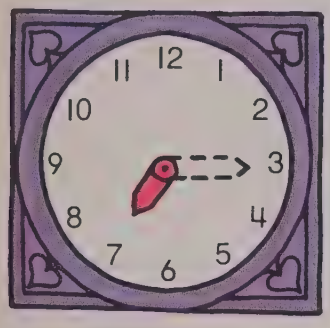
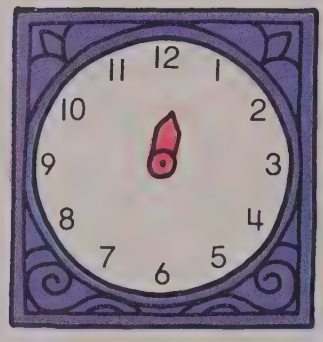


Put the minute hand on each clock.

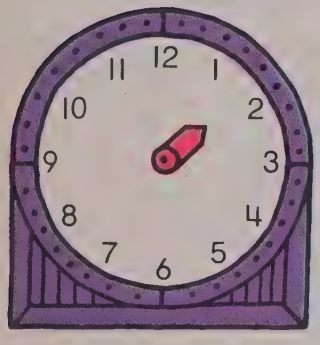


7:15

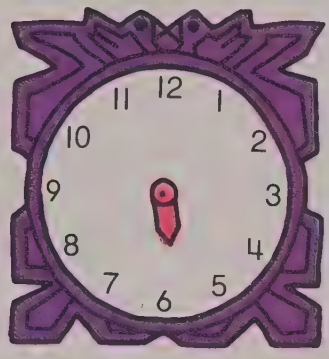
10:15



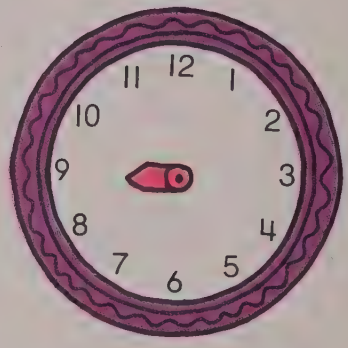
12:15



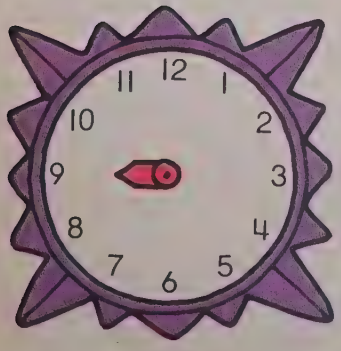
1:45



5:45

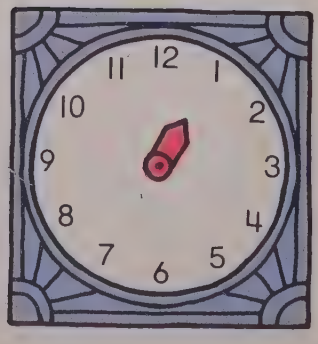


8:45



9:05

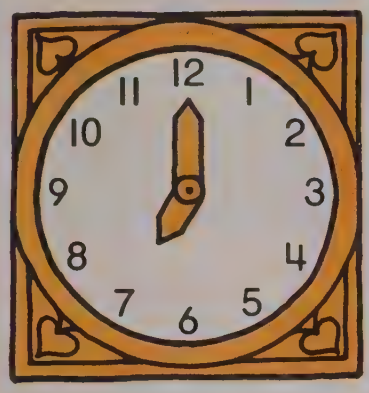
7:20



12:50

Show you know

Give the time for each clock.



7:00

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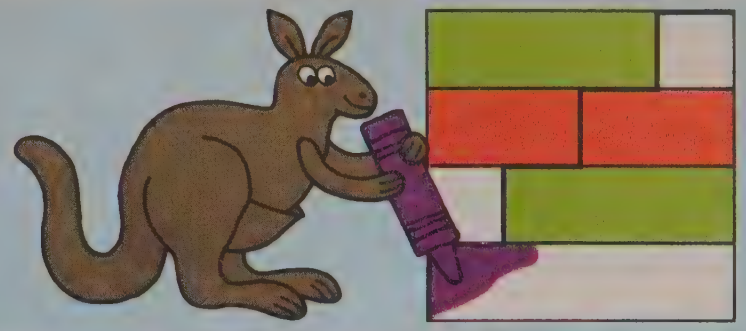
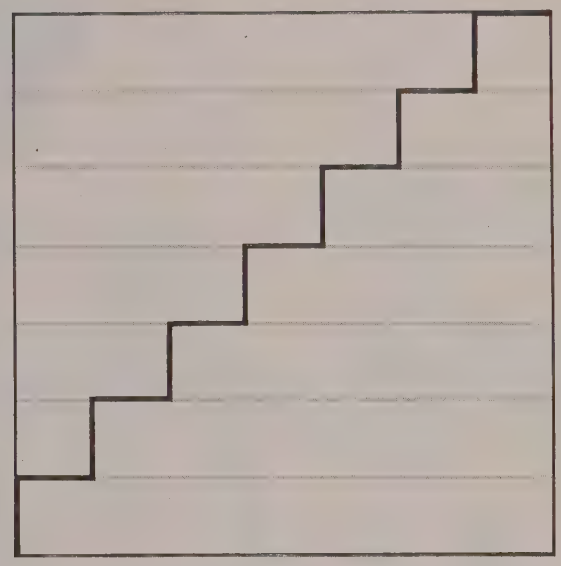
Let's have fun

Can you find the path to the ice cream stand?

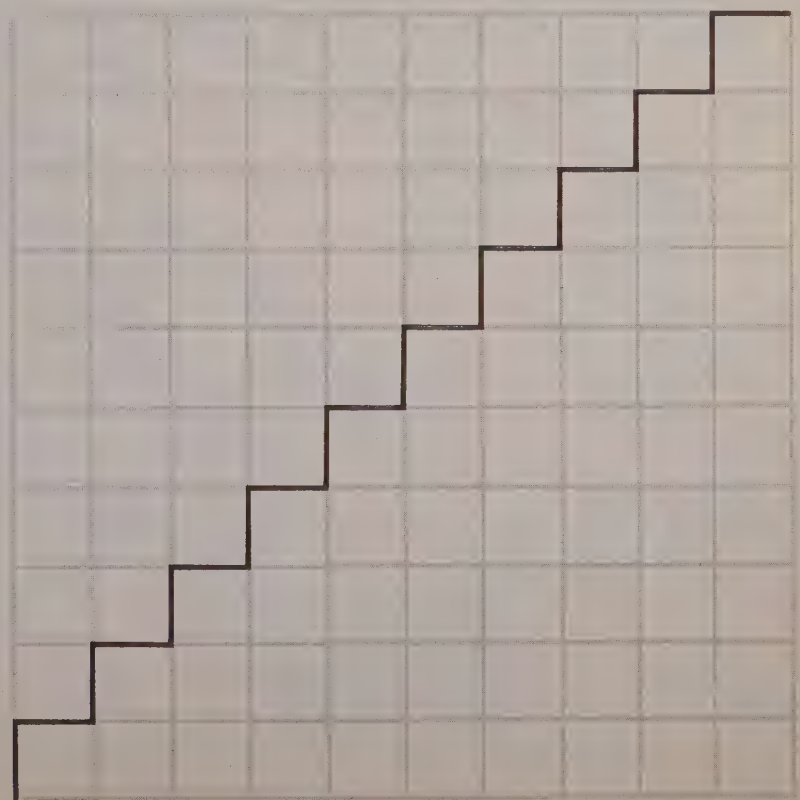
Let's do



Can you use your strips to help you color this square?



Can you build a square of your own on these stairs?



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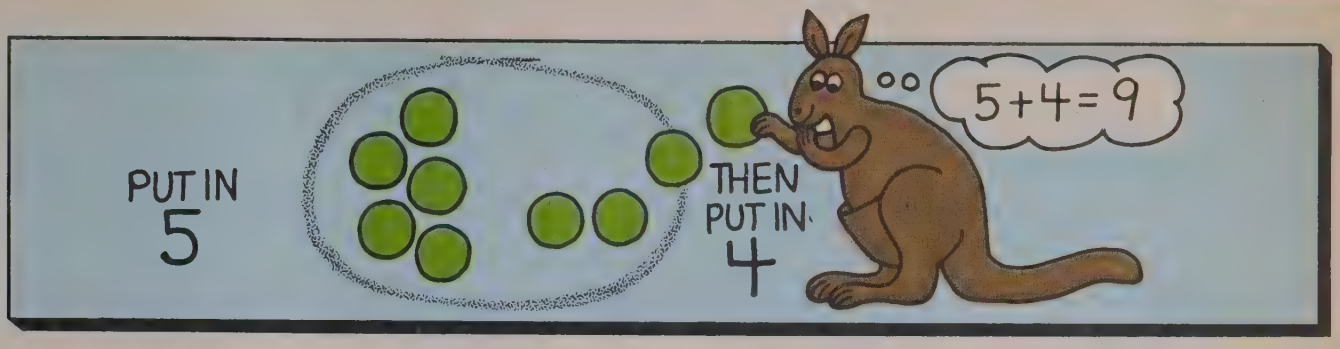
Let's talk

How many children?

How many animals?

How many plants?



Put in	Then put in	How many in all?
4	3	

Solve the equation. $4 + 3 = \square$

Put in	Then put in	How many in all?
6	2	

Solve the equation. $6 + 2 = \square$

Put in	Then put in	How many in all?
2	4	

Solve the equation. $2 + 4 = \square$

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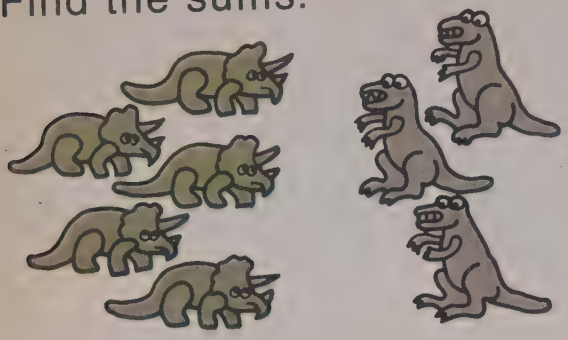
Find the sums.



$5 + 3 = \square$

$3 + 4 = \square$

$4 + 2 = \square$

$2 + 2 = \square$

$2 + 5 = \square$

$1 + 4 = \square$

$4 + 4 = \square$

$5 + 4 = \square$

$3 + 2 = \square$

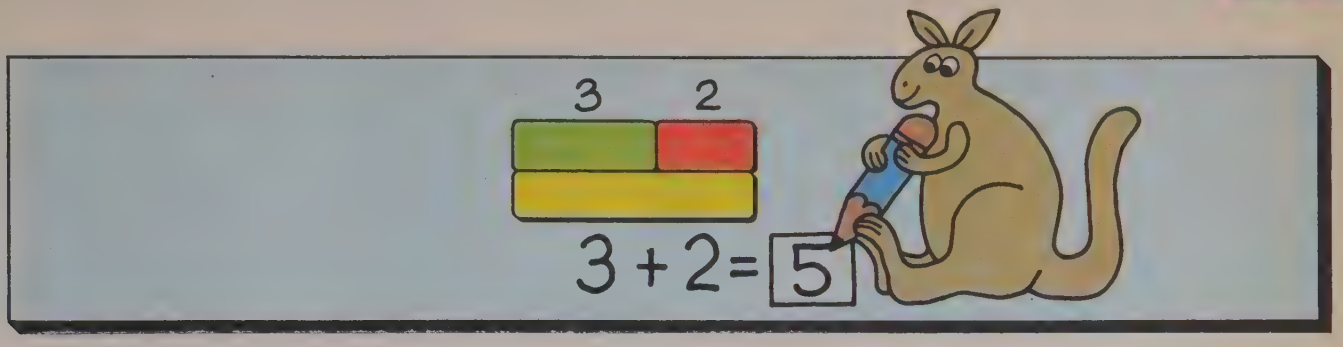
$7 + 3 = \square$

$2 + 6 = \square$

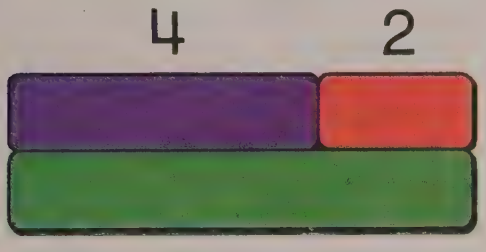
$2 + 8 = \square$

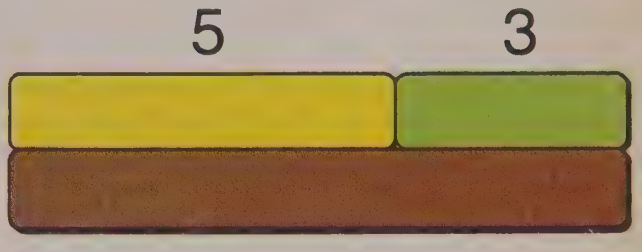
4	5	4	7	7	5
+3	+0	+6	+2	+1	+5

3	3	9	1	3	8
+6	+3	+1	+6	+5	+1



Solve the equations.





4 + 2 = ☐	5 + 3 = ☐
3 + 3 = ☐	3 + 4 = ☐
3 + 5 = ☐	5 + 4 = ☐
5 + 5 = ☐	1 + 5 = ☐
4 + 0 = ☐	4 + 4 = ☐
5 + 2 = ☐	3 + 6 = ☐
2 + 3 = ☐	8 + 2 = ☐
7 + 2 = ☐	2 + 4 = ☐
3 + 7 = ☐	6 + 2 = ☐

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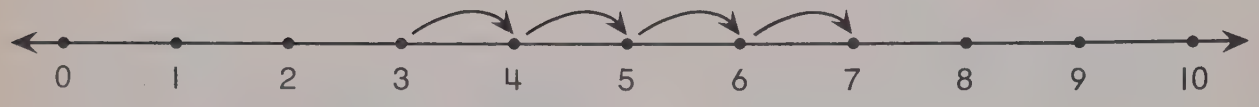
Solve the equations.

$4 + 5 = \square$



$3 + 4 = \square$

$3 + 2 = \square$

$2 + 5 = \square$

$5 + 5 = \square$

$4 + 2 = \square$

$6 + 3 = \square$

$4 + 4 = \square$

$6 + 1 = \square$

$3 + 3 = \square$

$2 + 7 = \square$

$0 + 6 = \square$

$4 + 6 = \square$

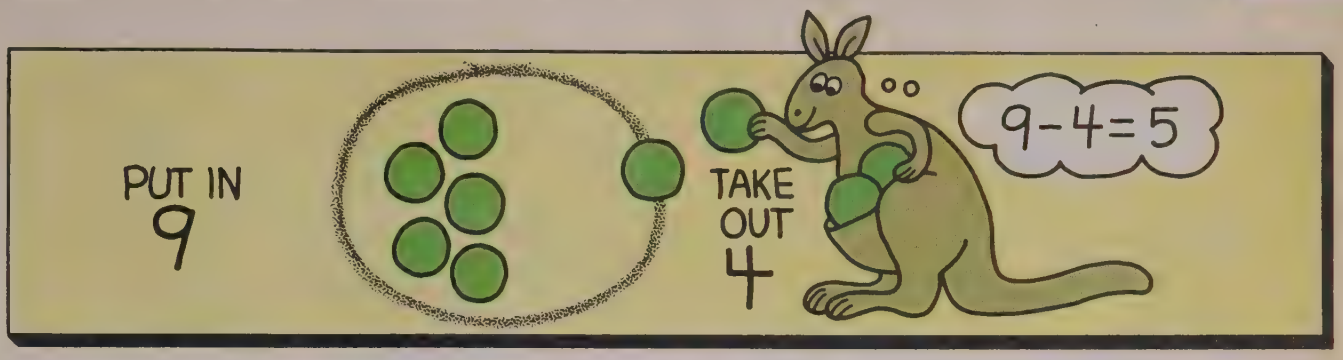
$3 + 5 = \square$

$6 + 4 = \square$

$4 + 3 = \square$

$6 + 2 = \square$

$8 + 1 = \square$



Put in	Take out	How many left?
7	2	

Solve the equation. $7 - 2 = \square$

Put in	Take out	How many left?
6	4	

Solve the equation. $6 - 4 = \square$

Put in	Take out	How many left?
8	3	

Solve the equation. $8 - 3 = \square$

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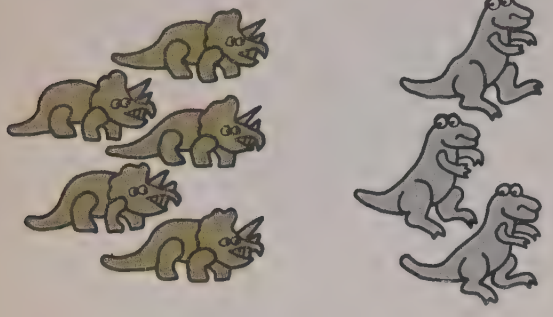
Find the differences.



$8 - 3 = \square$

$7 - 4 = \square$

$6 - 3 = \square$

$7 - 6 = \square$

$10 - 3 = \square$

$8 - 2 = \square$

$9 - 3 = \square$

$9 - 6 = \square$

$8 - 5 = \square$

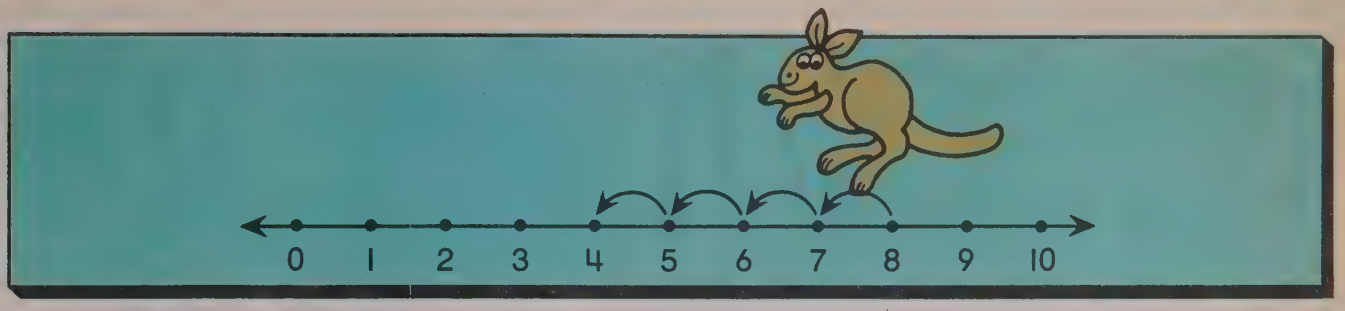
$7 - 5 = \square$

$10 - 8 = \square$

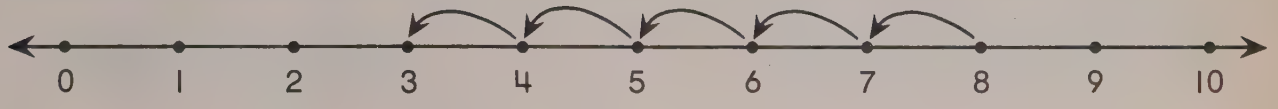
$4 - 0 = \square$

7	9	5	10	8	9
-2	-1	-3	-5	-3	-4

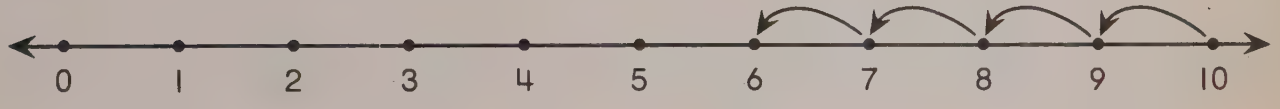
7	10	8	6	9	10
-1	-2	-4	-2	-5	-4



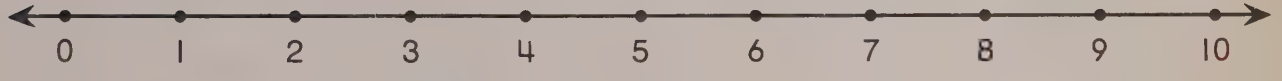
Solve the equations.



$8 - 5 = \square$



$10 - 4 = \square$



$6 - 2 = \square$

$9 - 4 = \square$

$8 - 6 = \square$

$10 - 7 = \square$

$7 - 4 = \square$

$9 - 5 = \square$

$9 - 6 = \square$

$7 - 3 = \square$

$10 - 5 = \square$

$6 - 0 = \square$

$8 - 3 = \square$

$5 - 5 = \square$

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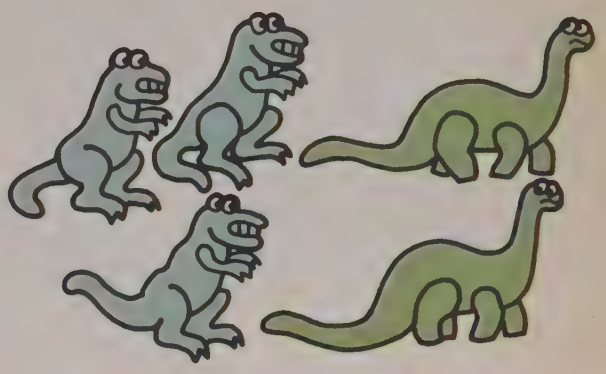
Solve.

4 − 4 = ☐	9 − 5 = ☐
4 + 3 = ☐	7 − 3 = ☐
6 + 4 = ☐	10 − 6 = ☐
3 + 3 = ☐	8 − 2 = ☐
4 + 5 = ☐	5 − 2 = ☐
6 − 4 = ☐	7 + 3 = ☐
9 − 3 = ☐	7 − 3 = ☐
5 + 1 = ☐	6 + 3 = ☐

7 + 2	0 + 5	2 + 8	10 − 3	7 − 7	8 − 4
4 + 3	10 − 9	7 − 6	5 + 5	3 + 5	9 − 2

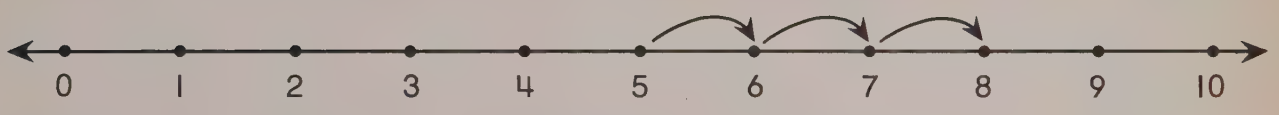
Show you know

Solve.

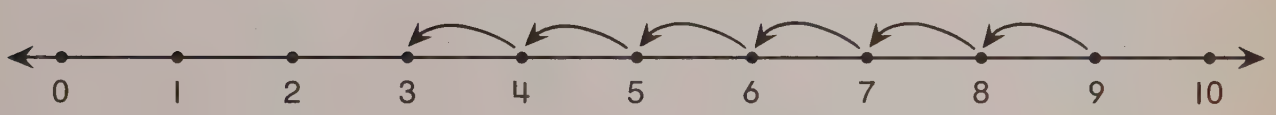


$5 + 2 = \square$

$5 - 2 = \square$



$5 + 3 = \square$



$9 - 6 = \square$

$6 + 3 = \square$

$2 + 4 = \square$

$8 - 4 = \square$

$10 - 2 = \square$

$$\begin{array}{r} 2 \\ +\,6 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ +\,5 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ +\,3 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ -\,5 \\ \hline \end{array} \qquad \begin{array}{r} 9 \\ -\,4 \\ \hline \end{array} \qquad \begin{array}{r} 10 \\ -\,6 \\ \hline \end{array}$$

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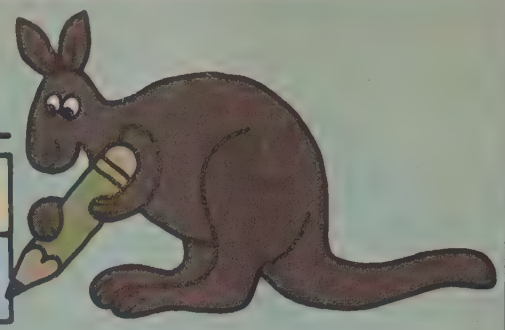
Let's have fun

$$\begin{array}{r} 5 \\ -4 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ +1 \\ \hline \end{array} \quad \begin{array}{r} 9 \\ -6 \\ \hline \end{array}$$

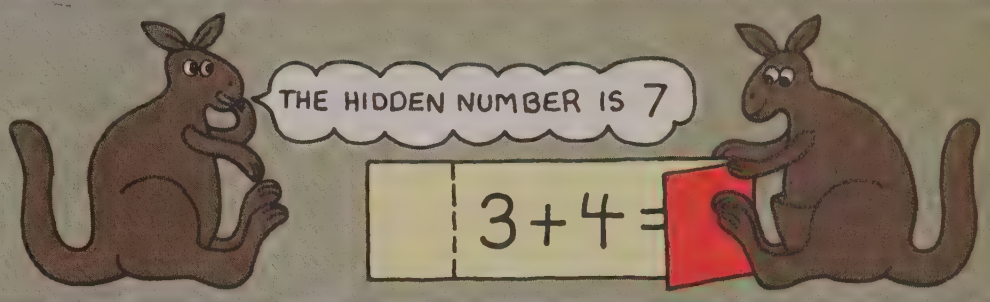
1	5	3
D	O	G



Write the sum or difference on yellow.
Use the code to put letters on blue.

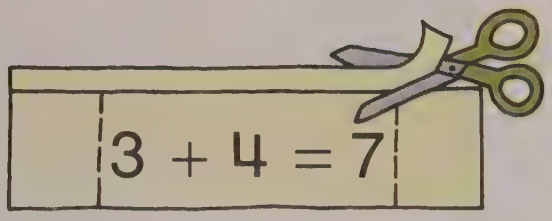
CODE					
		$\begin{array}{r} 3 \\ +4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ +5 \\ \hline \end{array}$
1	D	7	2		
2	E	V	E		
3	G	$\begin{array}{r} 10 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ +0 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ -3 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -8 \\ \hline \end{array}$
4	K				
5	O				
6	R				
7	V	$\begin{array}{r} 4 \\ +4 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -1 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ -5 \\ \hline \end{array}$
8	W				
9	Y				

Let's do

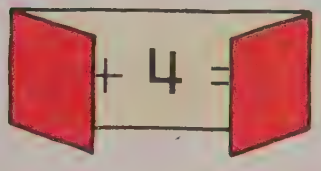


Cut and fold the slips of paper.

Step 1



Step 2



3 + 4 = 7	4 + 5 = 9
8 + 2 = 10	6 + 4 = 10
1 + 7 = 8	2 + 5 = 7
6 + 3 = 9	4 + 4 = 8
3 + 7 = 10	4 + 2 = 6

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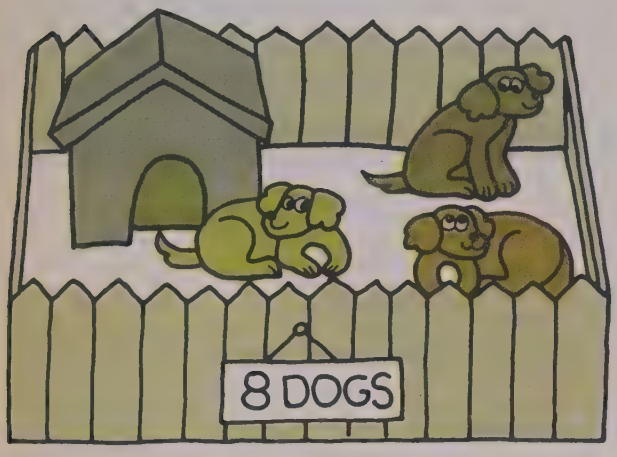
Let's talk

Solve the "dog-house" equations.



$\square + 3 = 8$

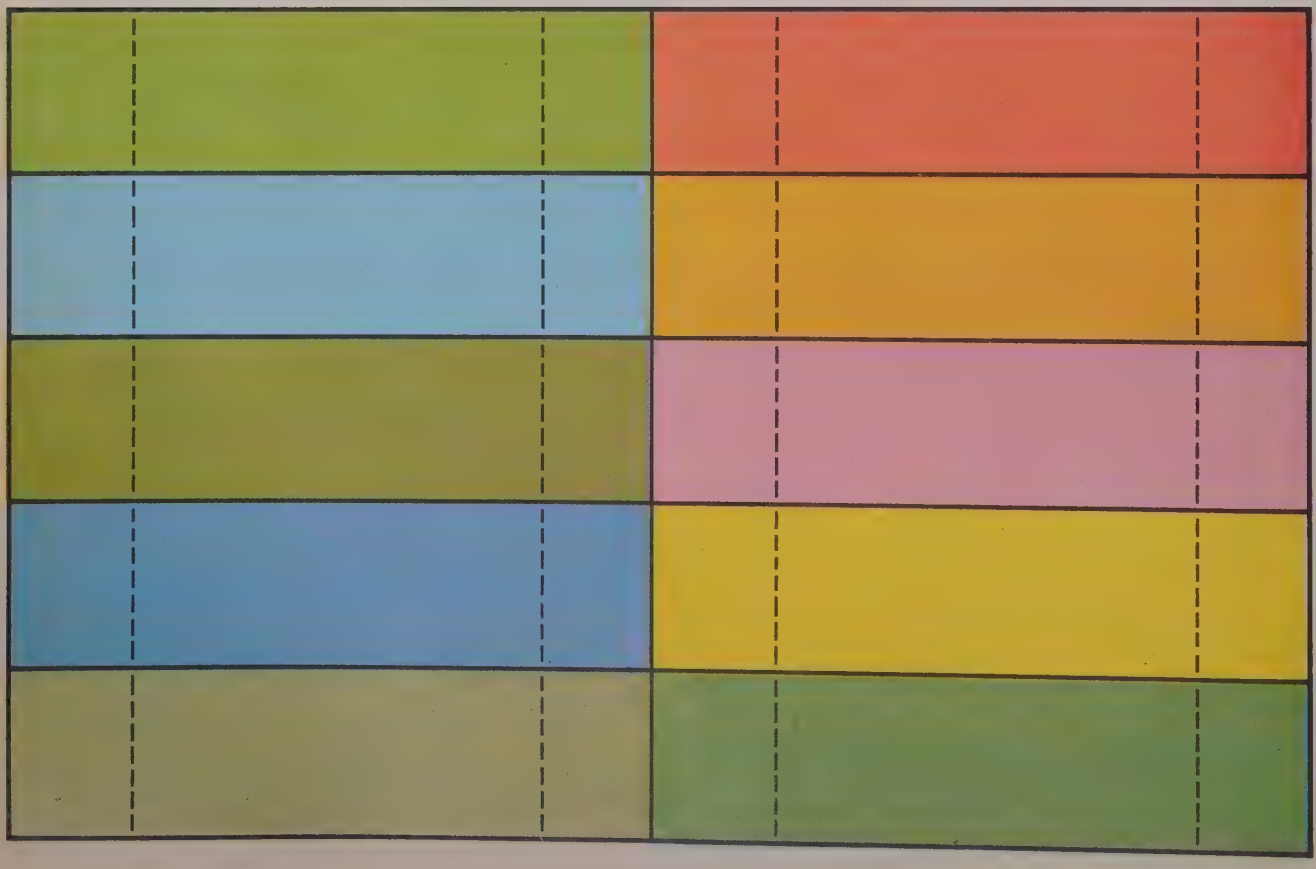
$\square + 5 = 7$

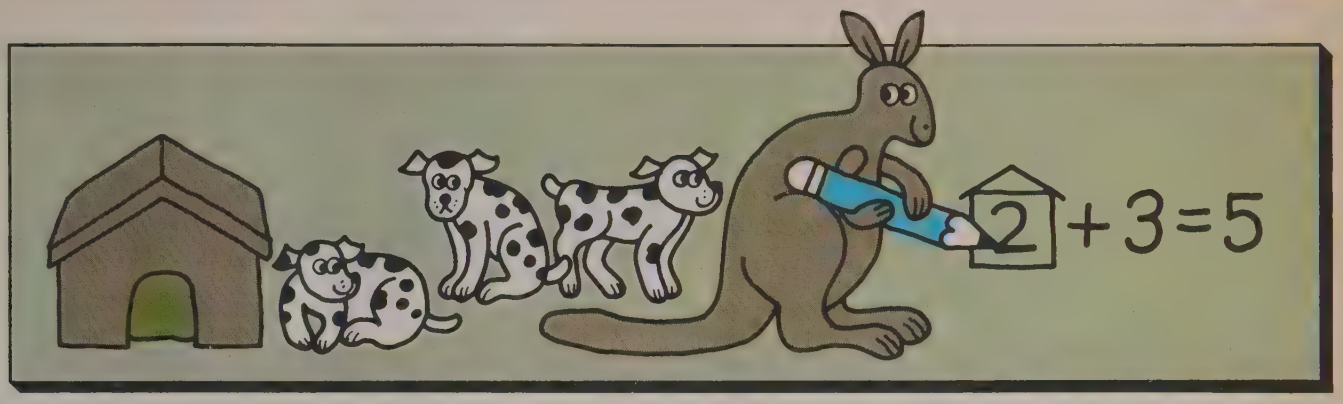
$\square + 2 = 6$

$\square + 5 = 10$

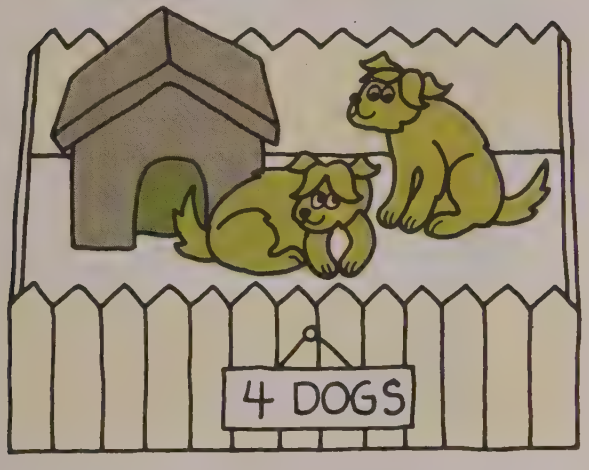
$\square + 4 = 9$

$\square + 8 = 8$





Solve the equations.



☐ + 2 = 4	☐ + 4 = 6
☐ + 4 = 5	☐ + 4 = 8
☐ + 1 = 7	☐ + 9 = 10
☐ + 4 = 4	☐ + 3 = 7
☐ + 3 = 6	☐ + 6 = 9
☐ + 0 = 3	☐ + 2 = 8

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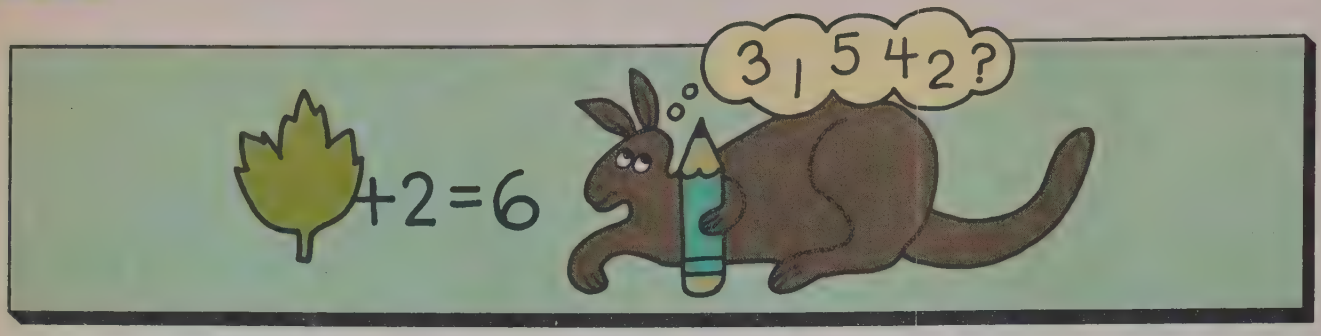


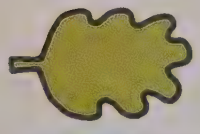
Find the hidden numeral.


+ 4 = 7


+ 2 = 3


+ 4 = 6


+ 5 = 8


+ 4 = 5


+ 2 = 4


+ 1 = 2


+ 3 = 6


+ 9 = 10


+ 7 = 9

Solve the equations.

☐ + 4 = 7

☐ + 0 = 6

☐ + 8 = 10

☐ + 2 = 5

☐ + 2 = 8

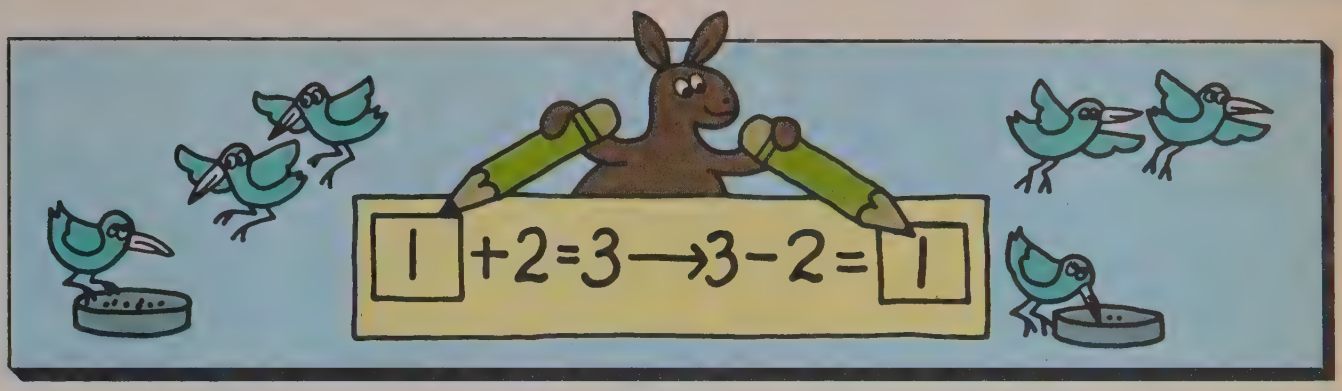
☐ + 1 = 6

☐ + 5 = 9

☐ + 5 = 5

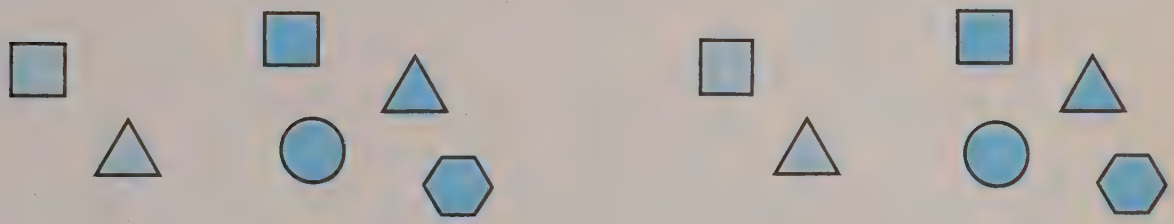
☐ + 2 = 7

☐ + 5 = 10



Solve the equations.

$\square + 2 = 5 \longrightarrow 5 - 2 = \square$



$\square + 4 = 6 \longrightarrow 6 - 4 = \square$

$\square + 3 = 4 \longrightarrow 4 - 3 = \square$

$\square + 2 = 6 \longrightarrow 6 - 2 = \square$

$\square + 4 = 9 \longrightarrow 9 - 4 = \square$

$\square + 3 = 7 \longrightarrow 7 - 3 = \square$

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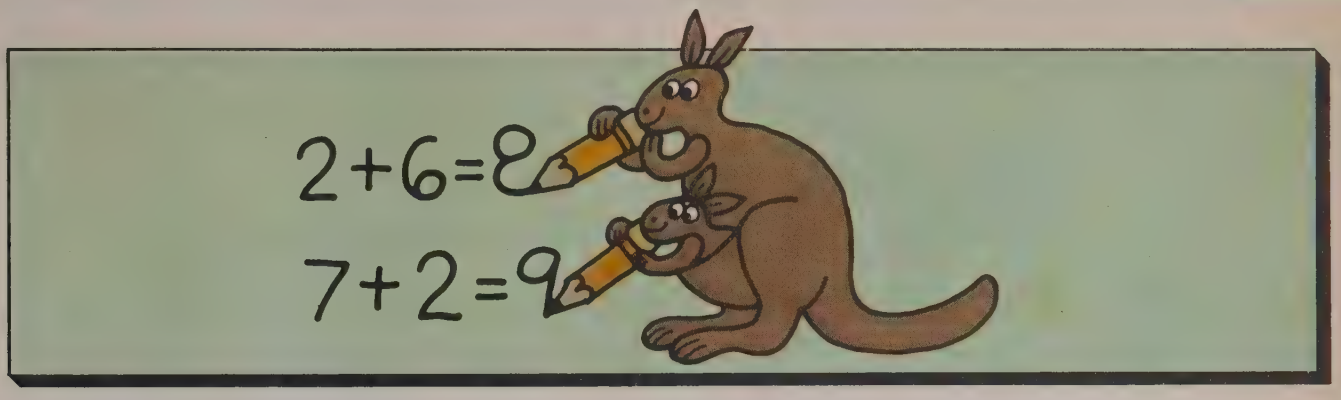
Solve the equations.

$\square + 1 = 3$	$\square + 2 = 3$
$3 - 1 = \square$	$3 - 2 = \square$
$\square + 2 = 9$	$\square + 3 = 3$
$9 - 2 = \square$	$3 - 3 = \square$
$\square + 2 = 7$	$\square + 4 = 6$
$7 - 2 = \square$	$6 - 4 = \square$
$\square + 1 = 6$	$\square + 3 = 10$
$6 - 1 = \square$	$10 - 3 = \square$
$\square + 3 = 7$	$\square + 4 = 8$
$7 - 3 = \square$	$8 - 4 = \square$



Solve.

4 + 3 = ☐	6 − 4 = ☐
5 + 1 = ☐	5 − 1 = ☐
3 + 6 = ☐	9 − 3 = ☐
0 + 5 = ☐	10 − 4 = ☐
7 + 3 = ☐	7 − 6 = ☐
4 + 4 = ☐	8 − 8 = ☐

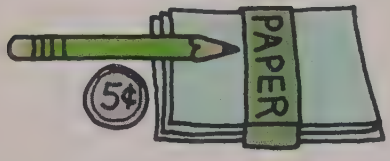
6	2	5	8	2	5
+0	+8	+3	+1	+3	+2

6	8	7	10	5	9
−3	−1	−5	−2	−0	−7

Short Stories

1 Pam saw 5 birds.
3 flew away.
How many stayed? ____

2 Tom had 5 apples.
He ate 4.
How many were left? ____



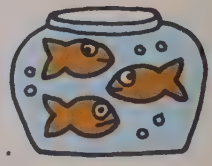
3 Sue paid 5 cents for a pencil.
She paid 4 cents for paper.
How much did she spend? ____

4 Ted ate 2 candy bars.
Bob ate 3 candy bars.
How many did they eat? ____

5 Jane walks 4 blocks to school.
She walks 4 blocks home.
How far does she walk? ____

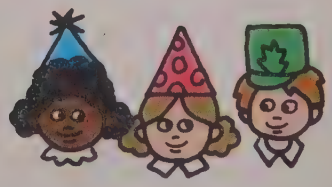
6 Fred had 3 cents.
He found 5 cents.
How much does
he have now? ____

7 Betty had 7 cookies.
She and Mary each ate 1.
How many were left? ____



8 Jack has 6 fish.
Dick has 3.
How many in all? ____

9 10 chairs are in the room.
6 children are in chairs.
How many empty
chairs? ____



10 6 girls and 4 boys were
at a party. How many
children were there? ____

Show you know

Solve.

$\square + 3 = 6$

$\square + 8 = 9$

$\square + 2 = 8$

$\square + 5 = 7$

$\square + 4 = 10$

$\square + 3 = 5$

$\square + 3 = 8$

$\square + 6 = 9$

$6 - 3 = \square$

$9 - 8 = \square$

$8 - 2 = \square$

$7 - 5 = \square$

$10 - 4 = \square$

$5 - 3 = \square$

$8 - 3 = \square$

$9 - 6 = \square$

$7 + 2$	$3 + 5$	$6 + 4$	$4 + 5$	$2 + 4$	$8 + 2$
$9 - 2$	$8 - 5$	$10 - 4$	$9 - 5$	$6 - 4$	$10 - 2$

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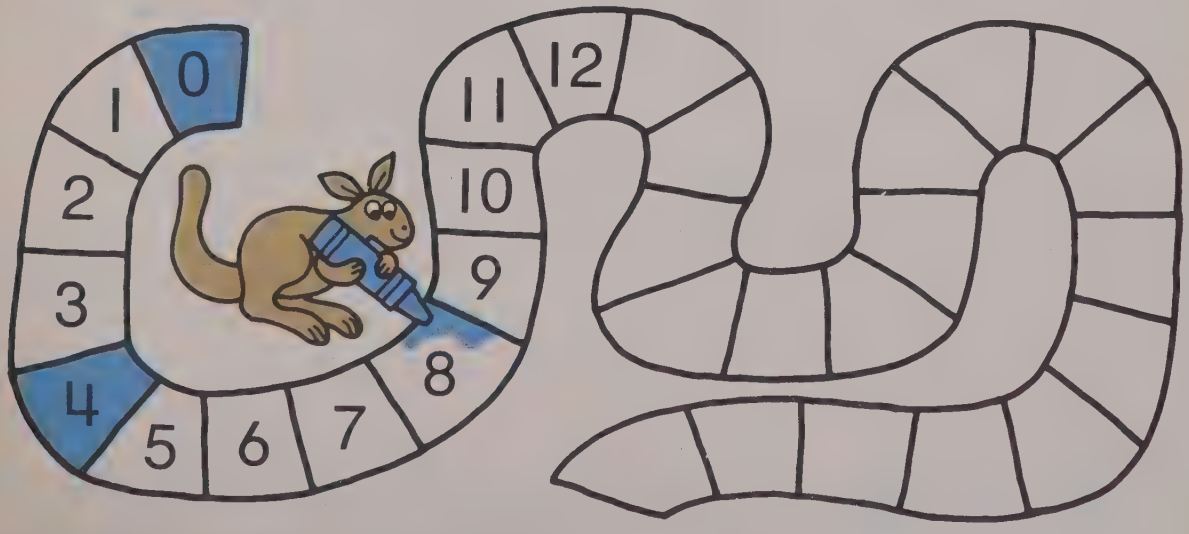
Let's have fun

Complete the counting. Color every third box.

Complete the skip counting by threes.

0	3	6						

Complete the counting. Color every fourth box.

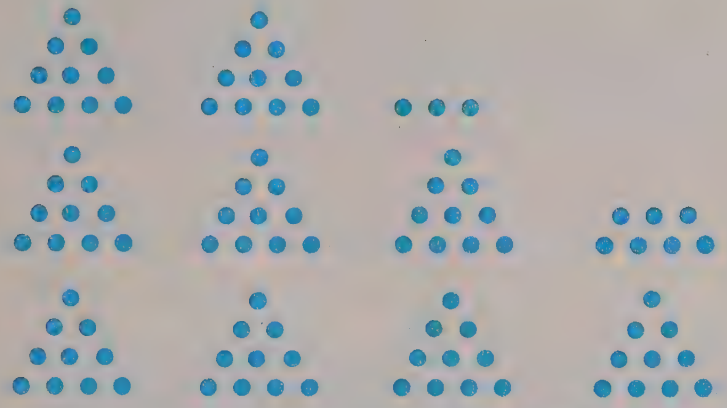


Complete the skip counting by fours.

0	4	8					

Looking back

How many?



____ tens and ____

____ tens and ____

____ tens and ____

Put > or < in each ☐.

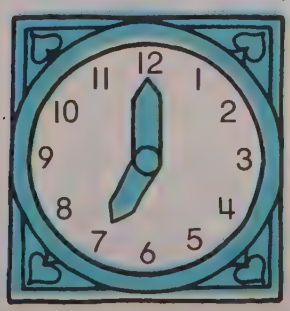
4 ☐ 7		9 ☐ 8		3 ☐ 5	
20 ☐ 40		32 ☐ 29		96 ☐ 89	

Find the value in cents.

_____ ¢

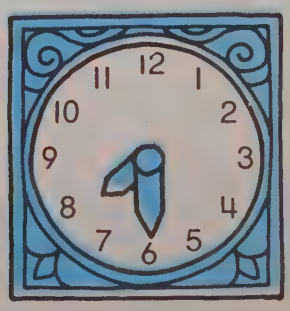
_____ ¢

Give the time for each clock.



_____

_____



_____

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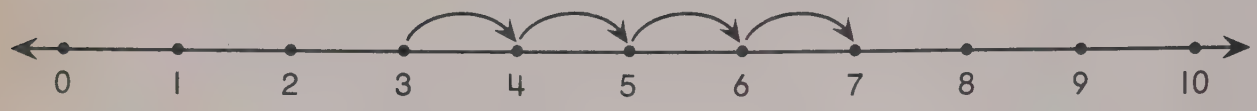
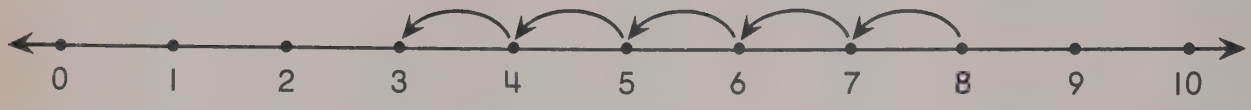
Solve the equations.



$3 + 4 = \square$



$8 - 5 = \square$

Add.

5	4	5	3	7	1	4
+2	+4	+3	+6	+3	+8	+5

Subtract.

9	10	8	7	10	6	9
−3	−4	−6	−7	−3	−3	−5

Solve the equations.

$\square + 3 = 5$

$\square + 4 = 7$

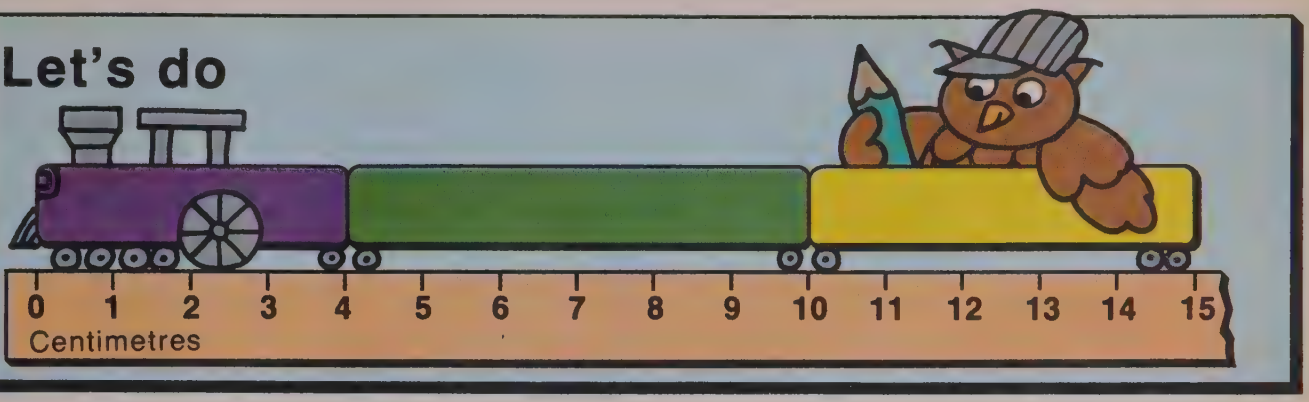
$\square + 2 = 10$

$5 - 3 = \square$

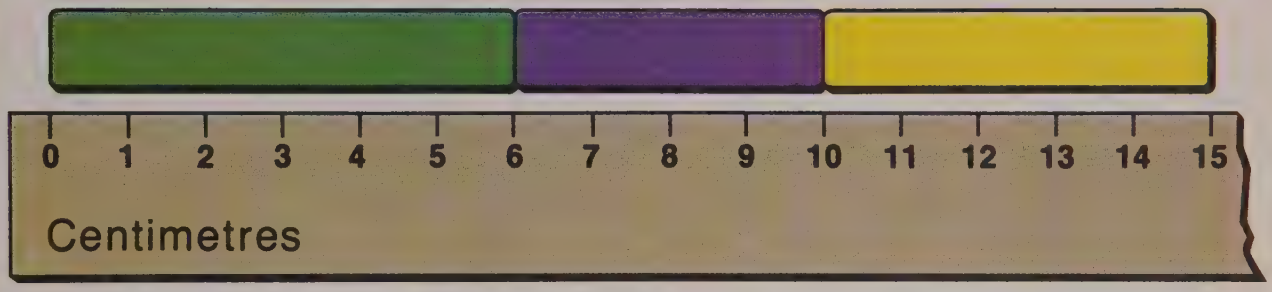
$7 - 4 = \square$

$10 - 2 = \square$

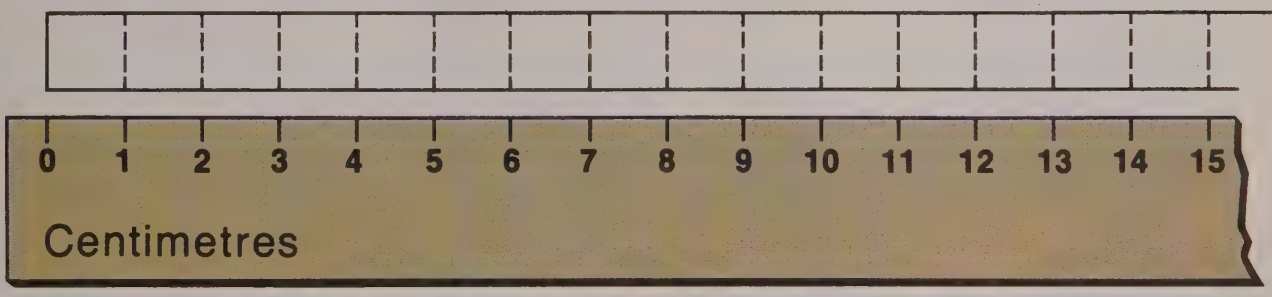
Let's do



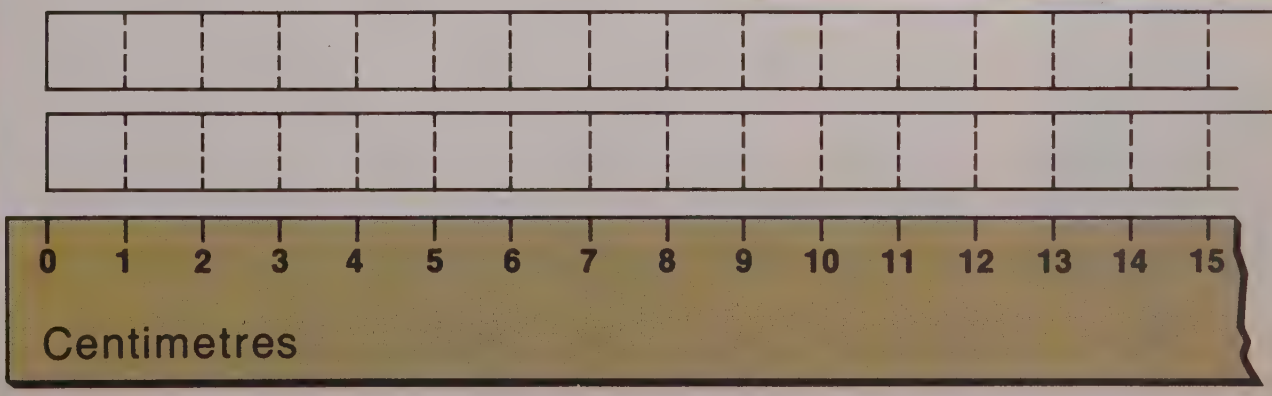
Make a three-strip train like this one.



Show a different train with the same three strips.



Can you show two different trains with three of these strips?



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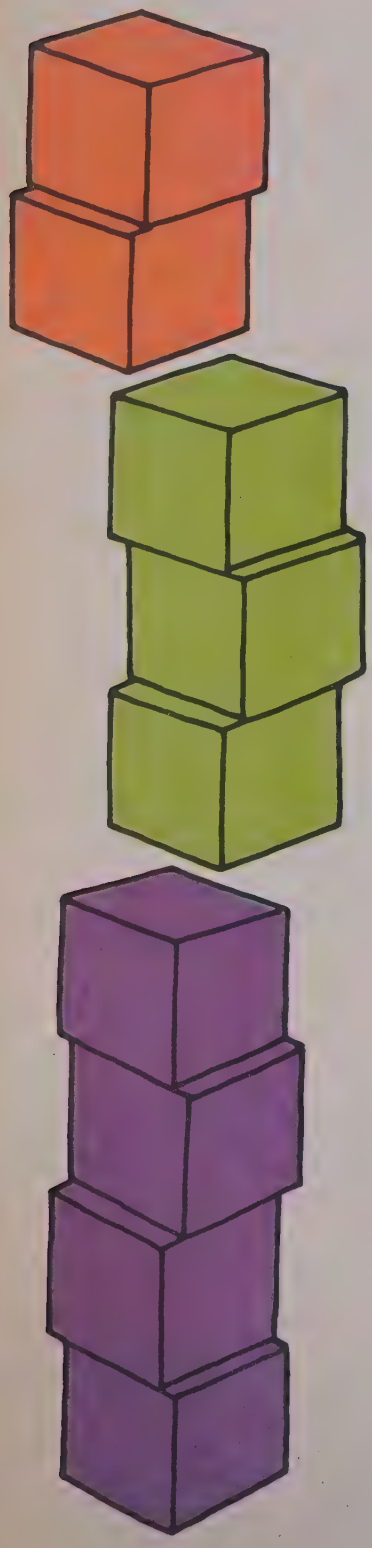
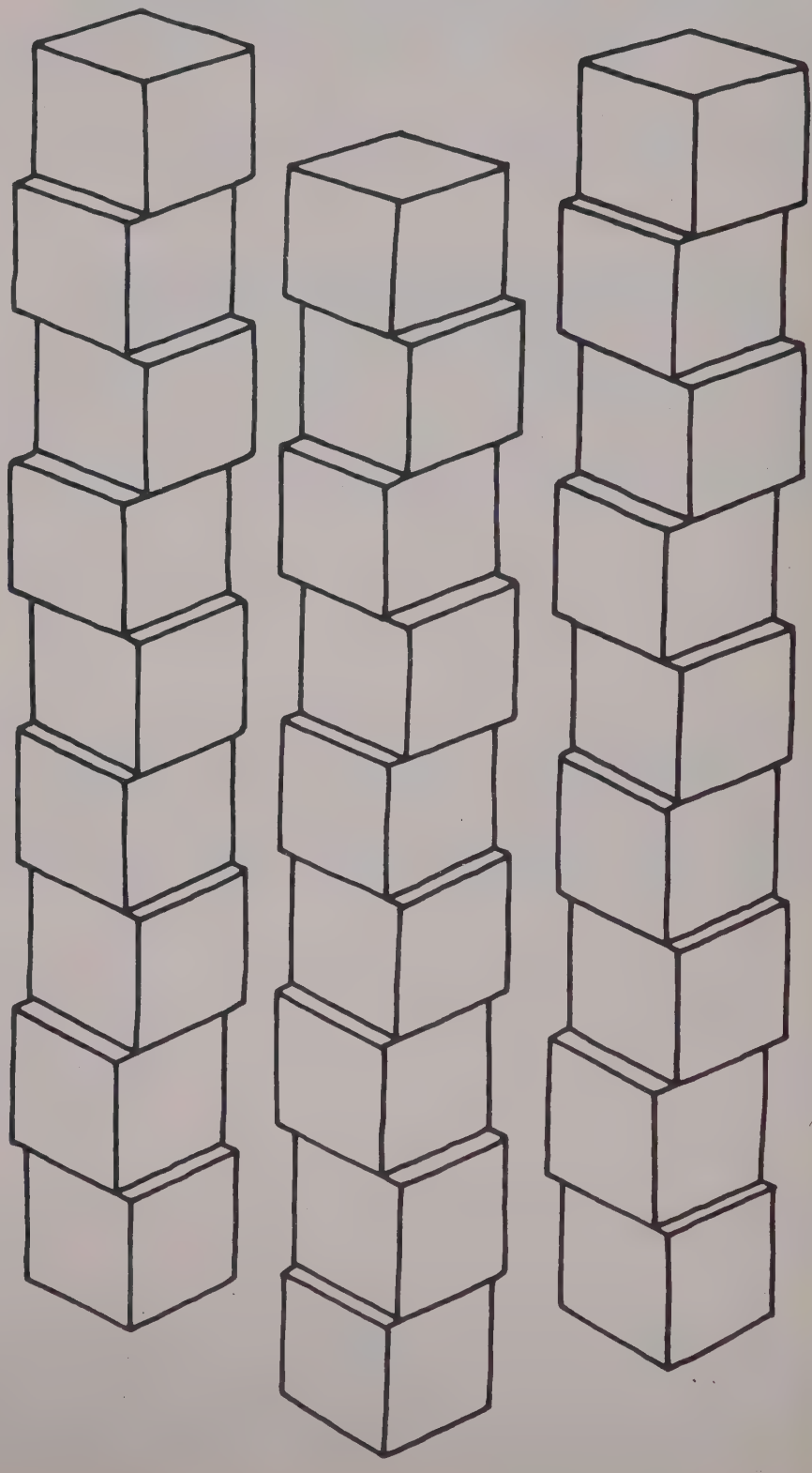
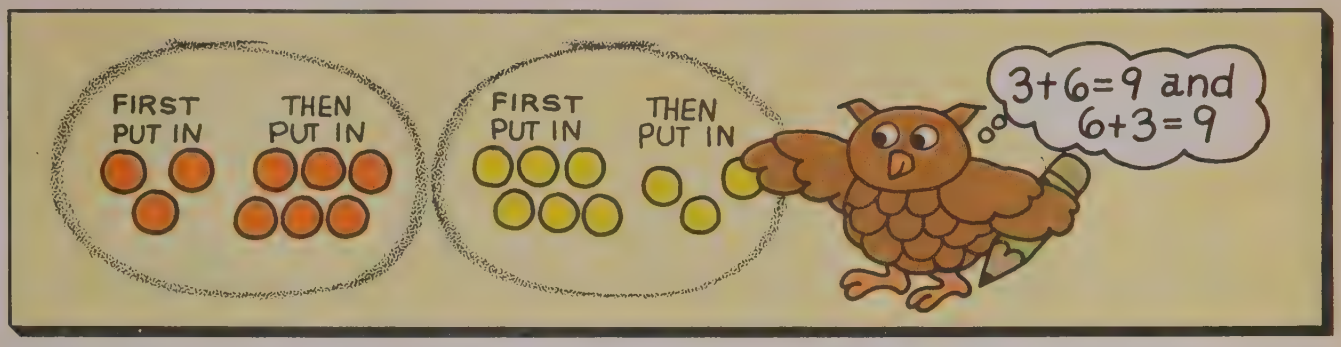
Let's talk

Color the towers to show
different ways to stack the blocks.







First put in | Then put in | How many?

5 + 4 = ☐

First put in | Then put in | How many?

4 + 5 = ☐

Solve the equations.

3 + 5 = ☐

5 + 3 = ☐

7 + 2 = ☐

2 + 7 = ☐

4 + 2 = ☐

2 + 4 = ☐

6 + 4 = ☐

4 + 6 = ☐

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Complete the matching.

Solve the equations.

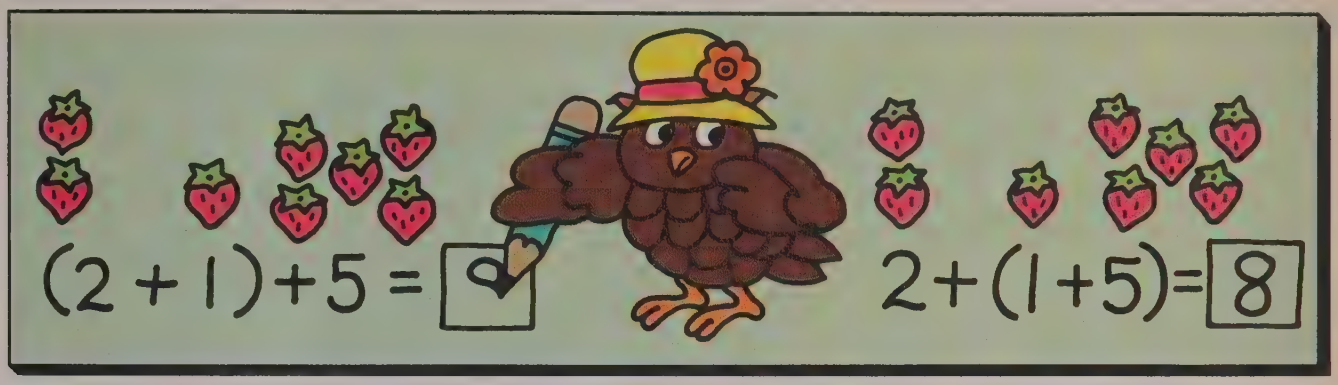
$7 + 2 = \square$ $\quad$ $5 + 3 = \square$

$2 + 7 = \square$ $\quad$ $3 + 5 = \square$

Complete each addition table.

+	4	3
4	8	4 + 3
3	3 + 4	6

+	5	3
5	10	5 + 3
3	3 + 5	6



Solve the equations.

$(3 + 2) + 4 = \boxed{9}$

$3 + (2 + 4) = \boxed{}$

$(1 + 5) + 3 = \boxed{}$

$1 + (5 + 3) = \boxed{}$

$(1 + 3) + 4 = \boxed{}$

$1 + (3 + 4) = \boxed{}$

$(2 + 3) + 5 = \boxed{}$

$2 + (3 + 5) = \boxed{}$

$(3 + 4) + 2 = \boxed{}$

$3 + (4 + 2) = \boxed{}$

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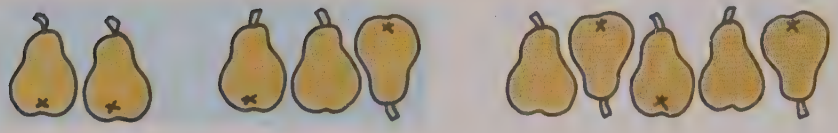
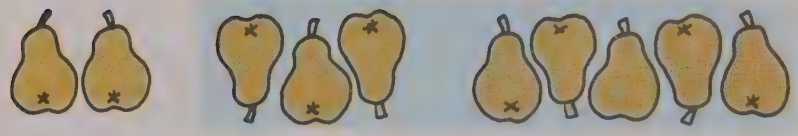
Solve the equations.

$(4 + 1) + 3 = \square$

$4 + (1 + 3) = \square$



$(2 + 3) + 5 = \square$



$2 + (3 + 5) = \square$

$(2 + 1) + 3 = \square$

$2 + (1 + 3) = \square$

$(4 + 3) + 2 = \square$

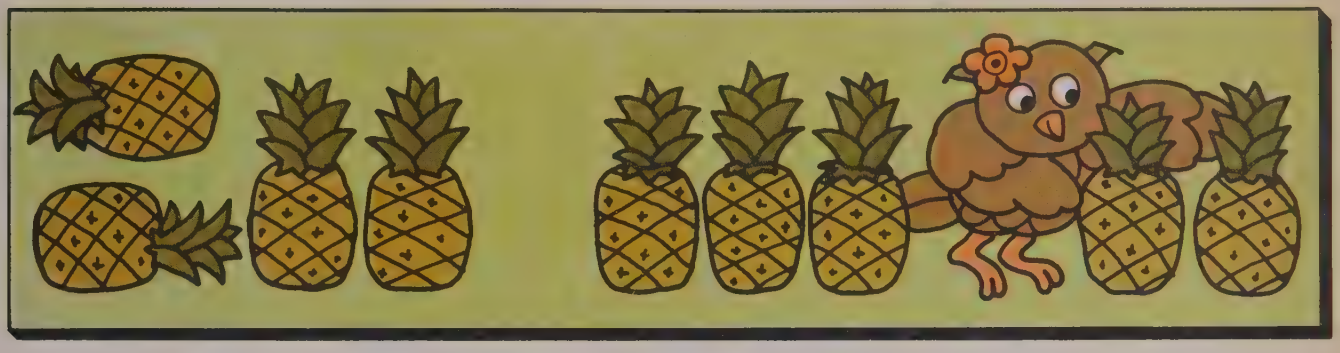
$4 + (3 + 2) = \square$

$(1 + 6) + 3 = \square$

$1 + (6 + 3) = \square$

$(5 + 2) + 1 = \square$

$5 + (2 + 1) = \square$



Can you show four different ways to add the numbers 2, 3, 4?

4 + 2 + 3 = 9

__ + __ + __ = __

__ + __ + __ = __

__ + __ + __ = __

Show four ways to add 1, 4, 5.

__ + __ + __ = __

__ + __ + __ = __

__ + __ + __ = __

__ + __ + __ = __

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Solve.

$3 + 1 + 2 = \square$

$4 + 1 + 4 = \square$

$5 + 2 + 1 = \square$

$1 + 4 + 3 = \square$

$4 + 2 + 1 = \square$

$5 + 2 + 3 = \square$

$2 + 3 + 3 = \square$

$4 + 3 + 2 = \square$

$2 + 1 + 3 = \square$

$3 + 4 + 3 = \square$

$3 + 2 + 5 = \square$

$3 + 2 + 1 = \square$

$$\begin{array}{r} 1 \\ 2 \\ +\,1 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ 3 \\ +\,1 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ 1 \\ +\,2 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ 4 \\ +\,4 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ 3 \\ +\,3 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ 3 \\ +\,2 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ 1 \\ +\,1 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ 1 \\ +\,2 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ 4 \\ +\,2 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ 2 \\ +\,3 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ 3 \\ +\,1 \\ \hline \end{array} \qquad \begin{array}{r} 1 \\ 5 \\ +\,4 \\ \hline \end{array}$$

Show you know

Solve.

$5 + 2 = \square$

$2 + 5 = \square$

$3 + 6 = \square$

$6 + 3 = \square$

$(1 + 4) + 1 = \square$

$1 + (4 + 1) = \square$

$(2 + 1) + 4 = \square$

$2 + (1 + 4) = \square$

$(3 + 1) + 2 = \square$

$3 + (1 + 2) = \square$

$(2 + 4) + 4 = \square$

$2 + (4 + 4) = \square$

$4 + 1 + 2 = \square$

$1 + 2 + 3 = \square$

$3 + 2 + 3 = \square$

$2 + 4 + 2 = \square$

$3 + 3 + 4 = \square$

$5 + 2 + 2 = \square$

2	3	5	6	1	4
1	2	1	2	7	4
+2	+4	+2	+2	+1	+1

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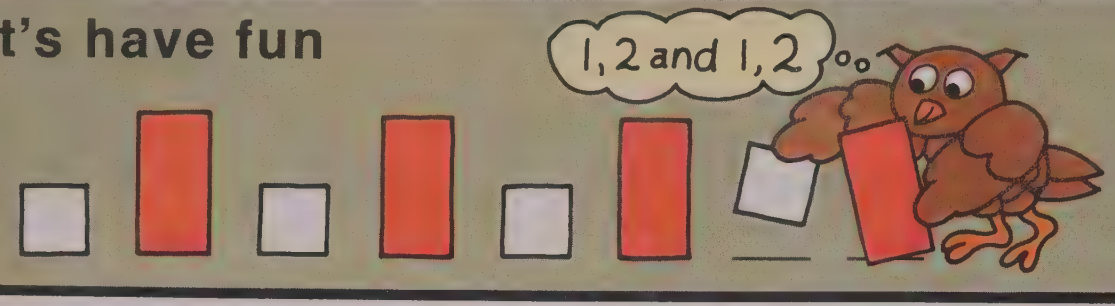
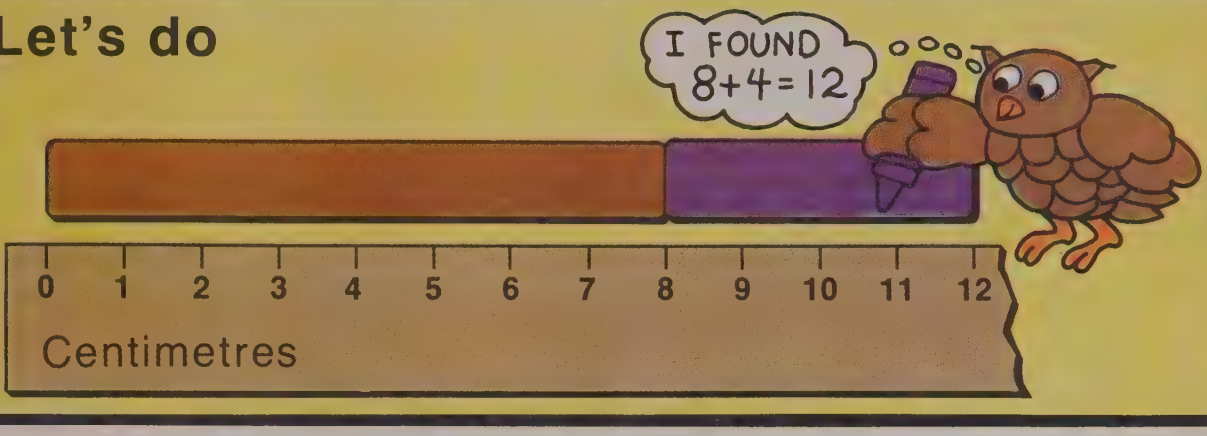
Let's have fun

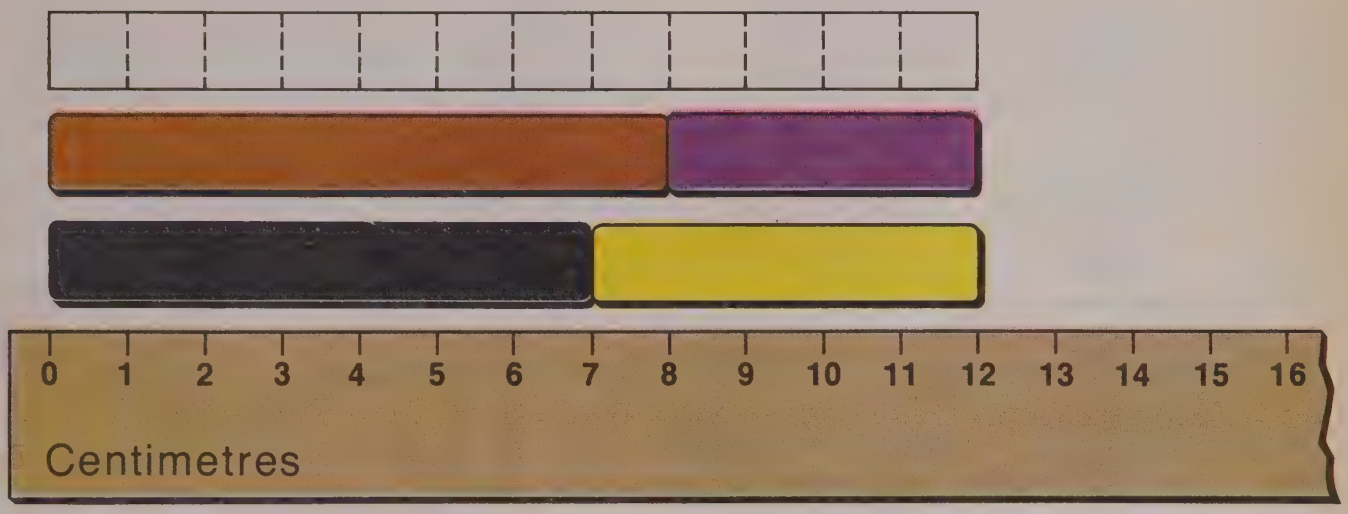


Study the pattern. Can you show the next two strips?

Let's do

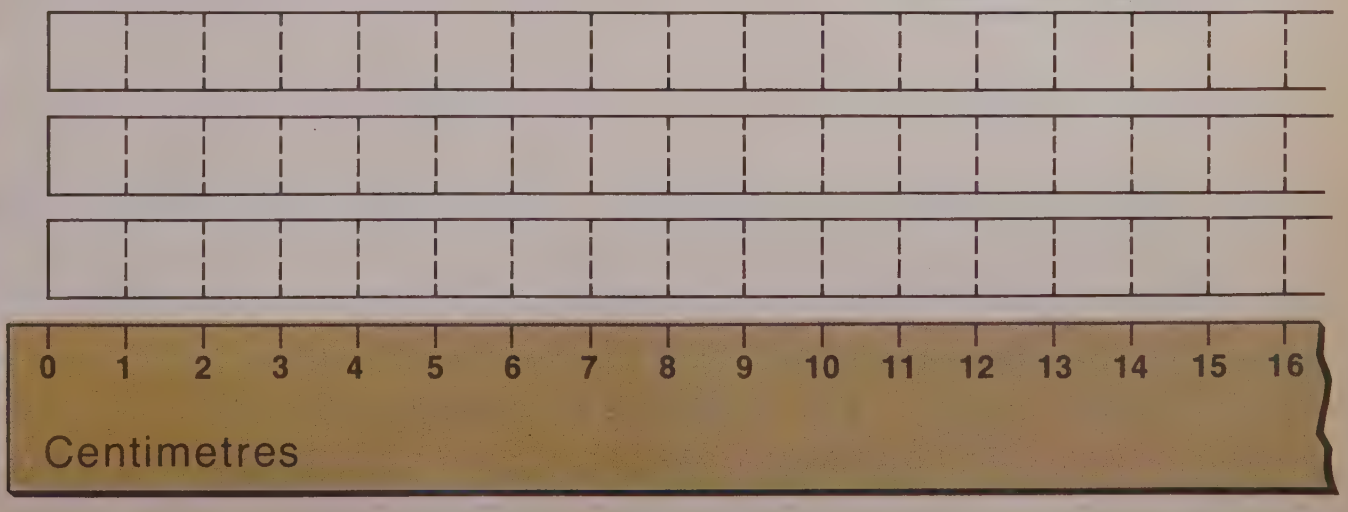


Show another pair of strips that "make 12".



Choose one of these numbers.
Can you show three pairs of strips for your number?

13 14 15 16



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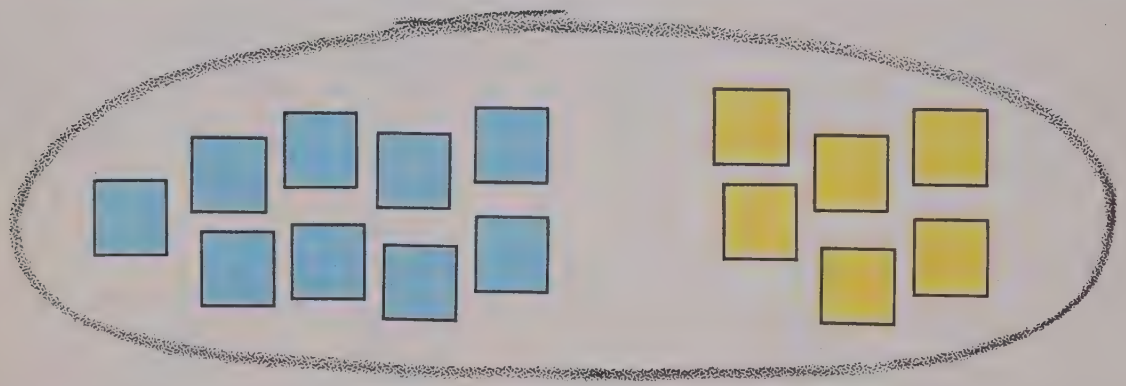
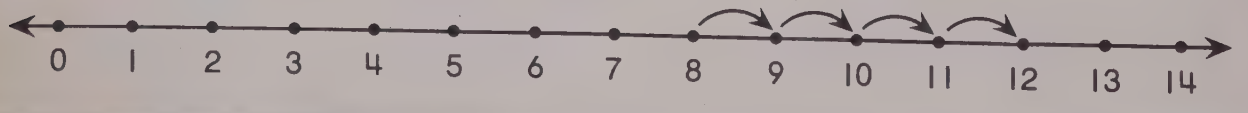
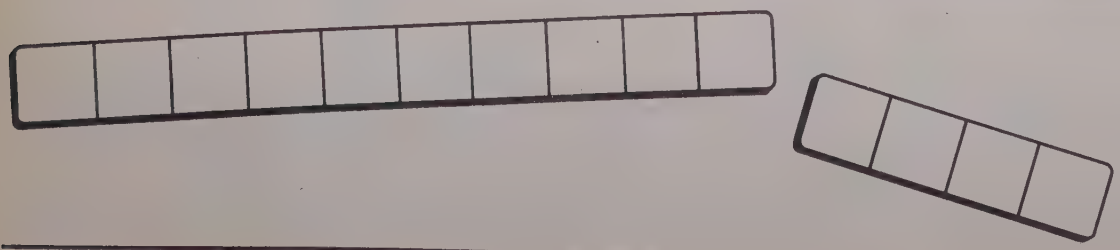
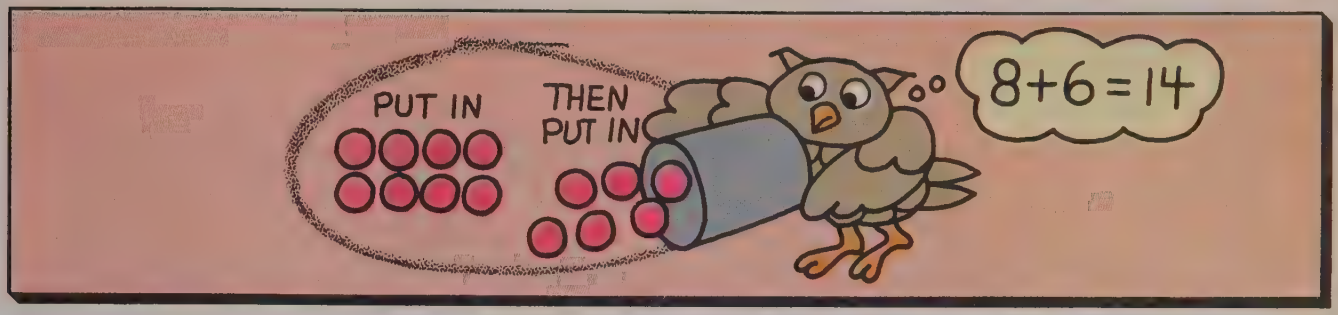
Let's talk

What sum does each picture show?









Put in		Then put in		How many?
6	+	7	=	☐
9	+	6	=	☐
7	+	7	=	☐
5	+	9	=	☐
8	+	5	=	☐

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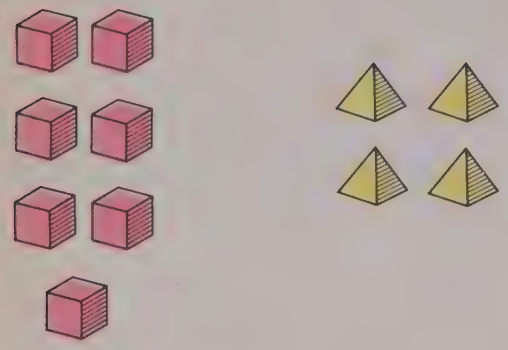
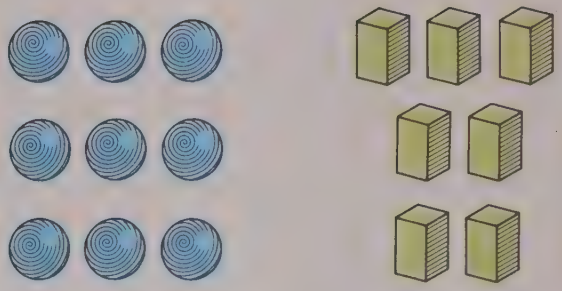
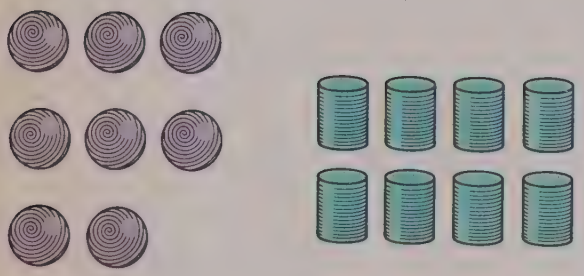
Find the sums.



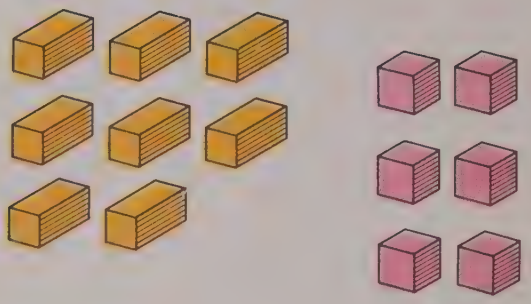
$7 + 4 = \square$



$9 + 7 = \square$



$8 + 8 = \square$



$8 + 6 = \square$

$6 + 5 = \square$

$4 + 8 = \square$

$9 + 3 = \square$

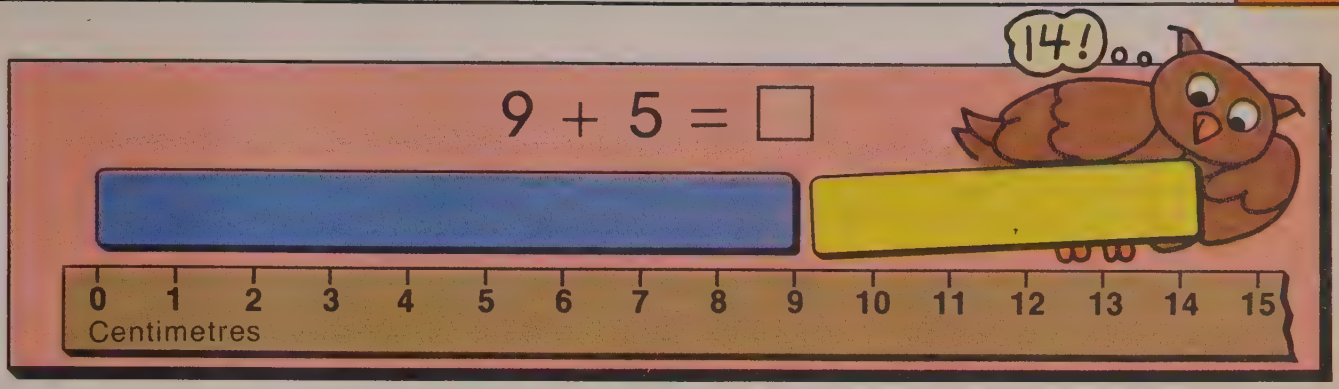
$6 + 7 = \square$

$7 + 8 = \square$

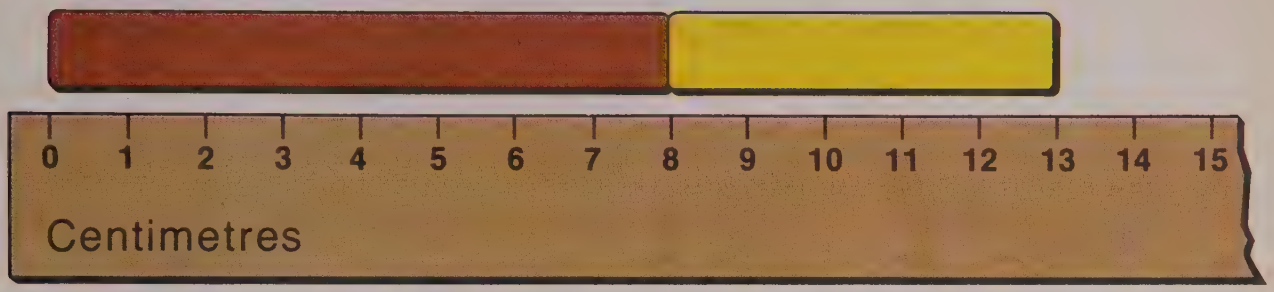
$8 + 9 = \square$

$8 + 7 = \square$

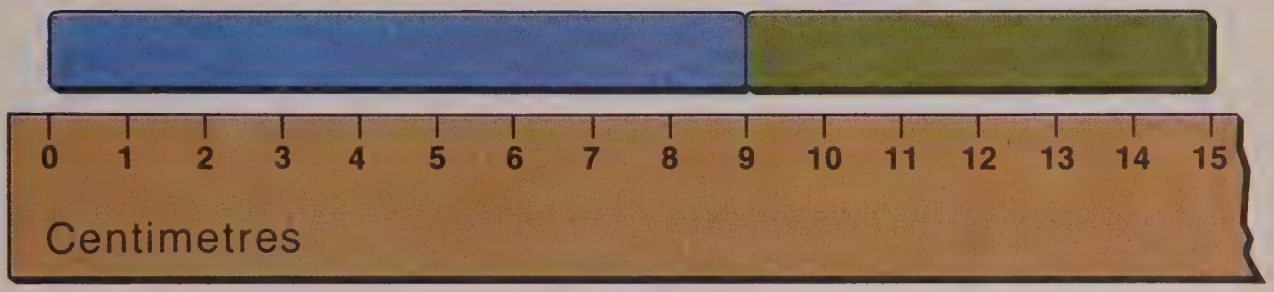
$9 + 9 = \square$



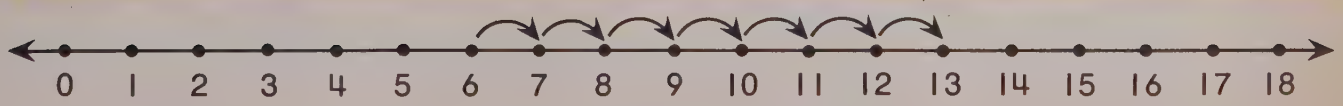
Solve the equations.



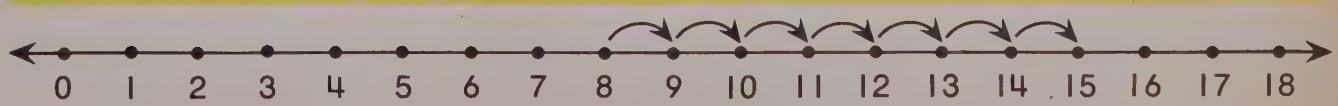
$8 + 5 = \square$



$9 + 6 = \square$



$6 + 7 = \square$



$8 + 7 = \square$

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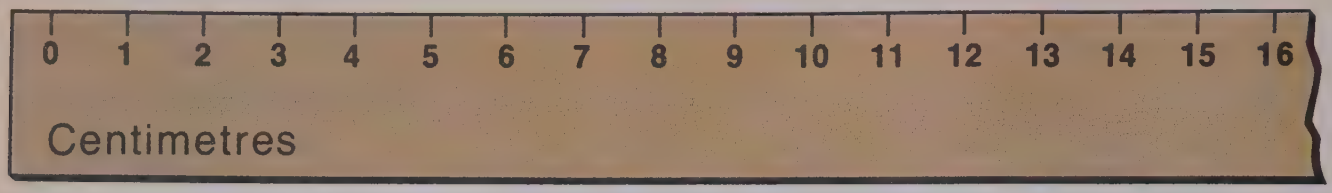
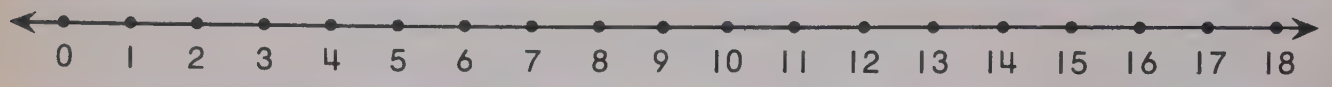
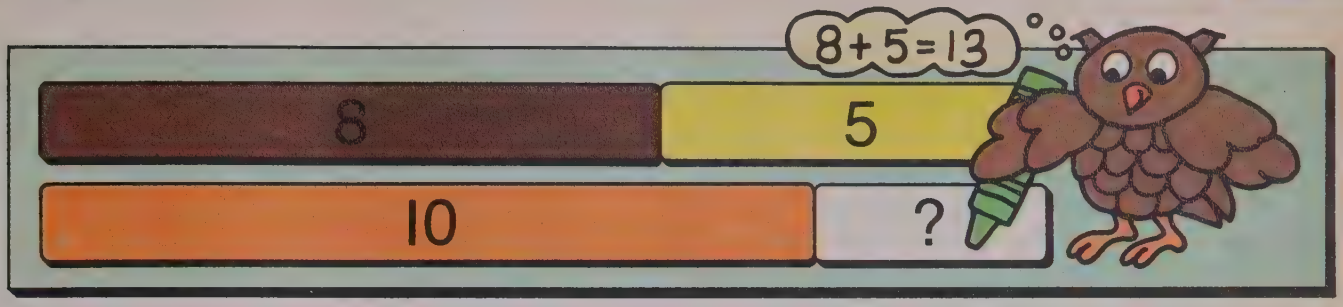




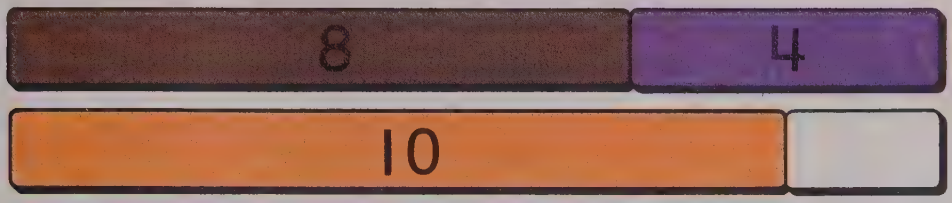
Find the sums.

4 + 9 = ☐	8 + 6 = ☐
6 + 5 = ☐	9 + 2 = ☐
7 + 7 = ☐	9 + 7 = ☐
4 + 8 = ☐	5 + 8 = ☐
7 + 6 = ☐	9 + 3 = ☐
6 + 9 = ☐	7 + 8 = ☐

5 + 9	5 + 7	9 + 4	9 + 9	4 + 8	8 + 7
7 + 4	9 + 8	7 + 5	9 + 5	6 + 0	8 + 8



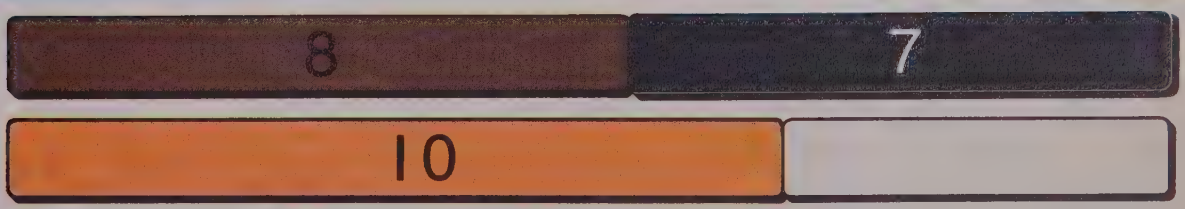
Color the missing strip. Then solve the equation.



$8 + 4 = \square$

$7 + 6 = \square$

$9 + 5 = \square$



$8 + 7 = \square$

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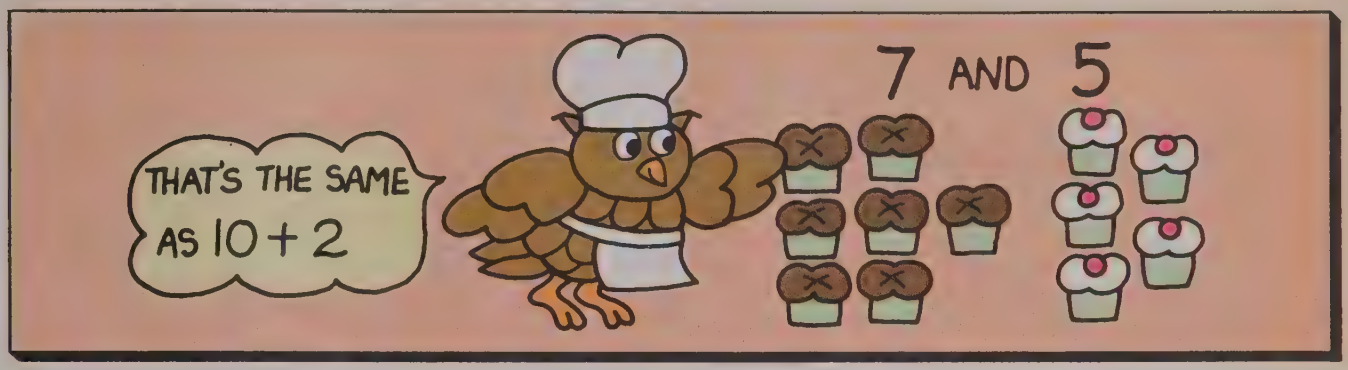
Give the missing numbers.

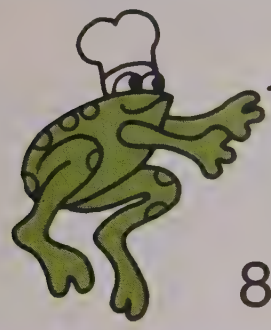
7 and 5	10 and ☐
8 and 6	10 and
5 and 8	10 and
7 and 7	10 and
9 and 6	10 and
6 and 7	10 and
8 and 8	10 and
4 and 7	10 and

Solve the equations.

$7 + 5 = \square$	$9 + 6 = \square$
$8 + 6 = \square$	$6 + 7 = \square$
$5 + 8 = \square$	$8 + 8 = \square$
$7 + 7 = \square$	$4 + 7 = \square$



Give the missing numbers.



THAT'S THE SAME AS 10 AND 3.

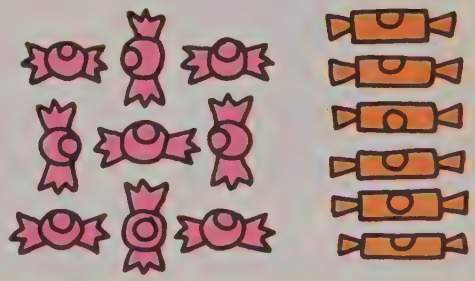
$8 + 5 = 10 + \boxed{3}$

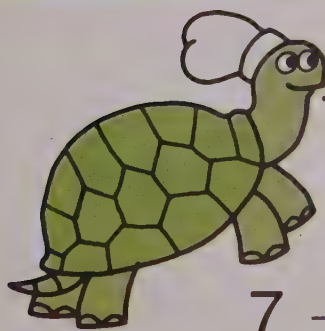
8 and 5

THAT'S THE SAME AS 10 AND .

$9 + 6 = 10 + \square$

9 and 6





THAT'S THE SAME AS 10 AND .

$7 + 4 = 10 + \square$

7 and 4

Solve the equations.

$8 + 5 = \square$ $9 + 6 = \square$ $7 + 4 = \square$

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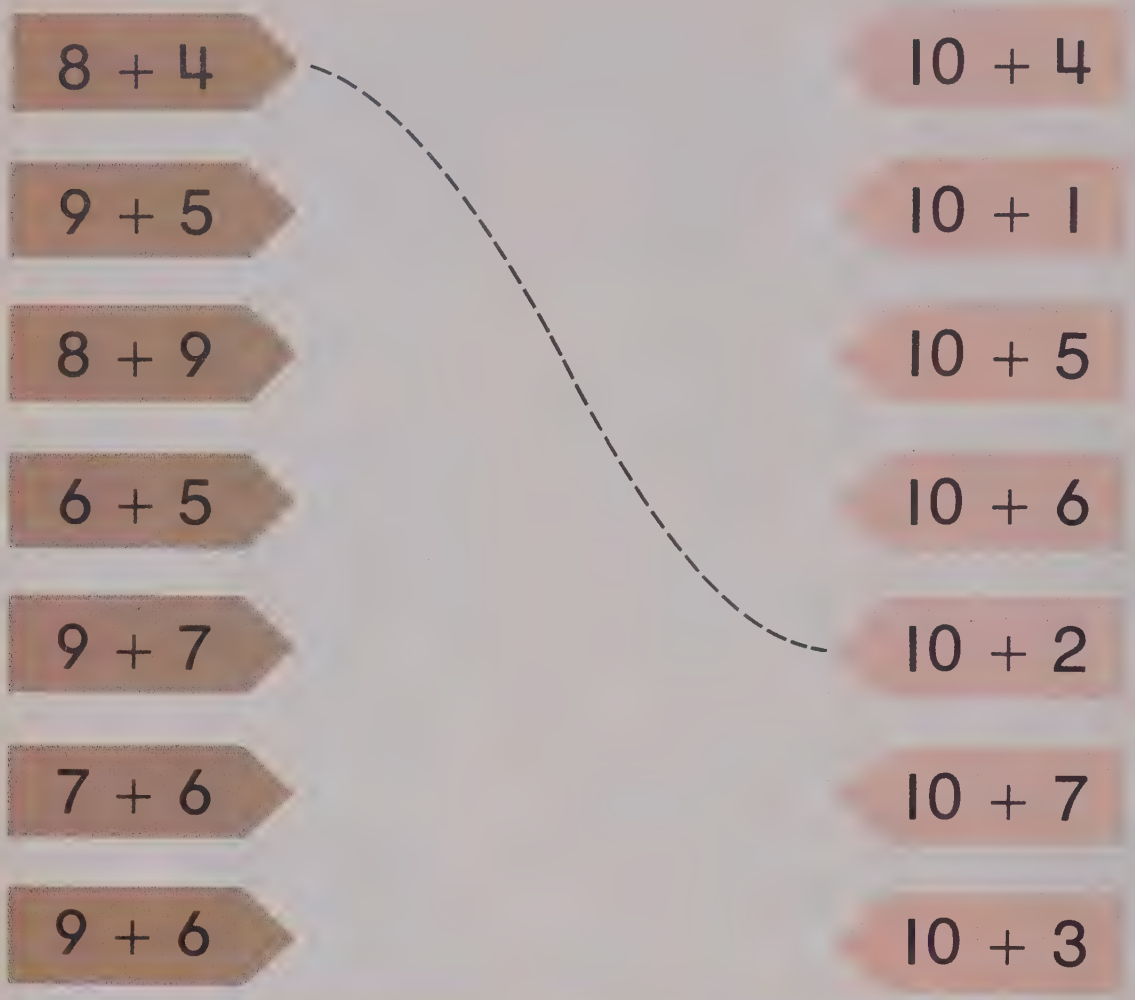
Complete the matching.

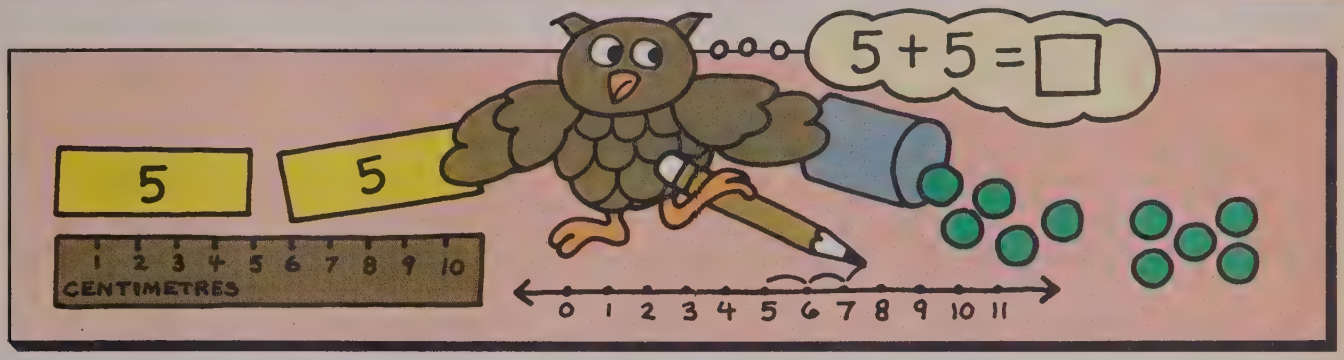


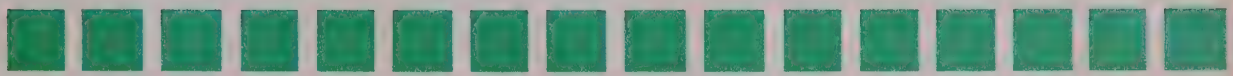
Mark each incorrect answer with an X.

Solve the equations.

Billy W.

9 + 6 = 10 + 5	8 + 8 = 10 + 6
7 + 4 = 10 + 1	7 + 3 = 10 + 1
6 + 6 = 10 + 3	9 + 4 = 10 + 3
8 + 5 = 10 + 2	5 + 9 = 10 + 5





Find the sums.

9 + 4 = □	8 + 8 = □
2 + 8 = □	5 + 6 = □
7 + 7 = □	9 + 5 = □
5 + 7 = □	6 + 7 = □
7 + 4 = □	8 + 6 = □

8	7	4	6	6	9
+5	+8	+8	+4	+6	+8

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Picture Problems

1. 9  and 7  played kick  .
How many played? ____

2. Each  costs 7  .
How much for 2  ? ____

3. John saw 9  and 3  . How many in all? ____

4. 6  at one  .
6  at another  .
How many children in all? ____

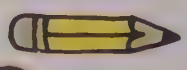
5. Randy put 8  on one page of his  . He put 7  on another page. How many in all? ____

6. An  costs 9  .
A  costs 3  .
How much for both? ____

7. Tam saw 6  in a  . She saw 8  in a  . How many in all? ____

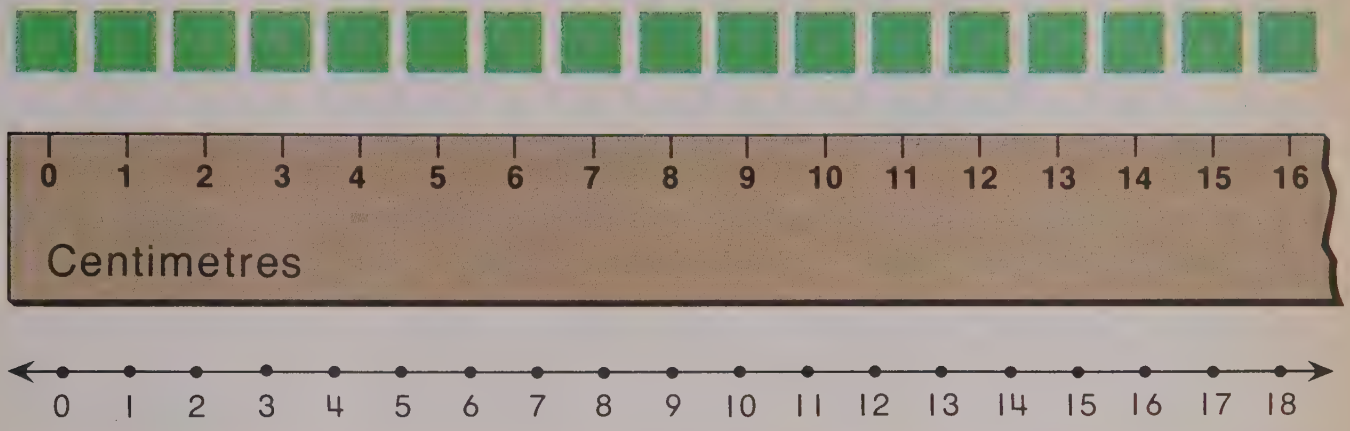
8. Chris saw 5  and 6  . How many in all? ____

9. Ann had 9  . She bought 8 more. How many  does she have now? ____

10. Beth bought 2  .
Each cost 9  .
How much in all? ____

Show you know

Find the sums.



$6 + 5 =$ ☐	$8 + 8 =$ ☐
$7 + 7 =$ ☐	$5 + 9 =$ ☐
$4 + 9 =$ ☐	$7 + 8 =$ ☐
$8 + 4 =$ ☐	$4 + 7 =$ ☐
$9 + 7 =$ ☐	$8 + 9 =$ ☐

9 + 3	7 + 9	5 + 7	9 + 5	7 + 6	6 + 9
6 + 8	6 + 7	8 + 7	9 + 9	6 + 6	8 + 5

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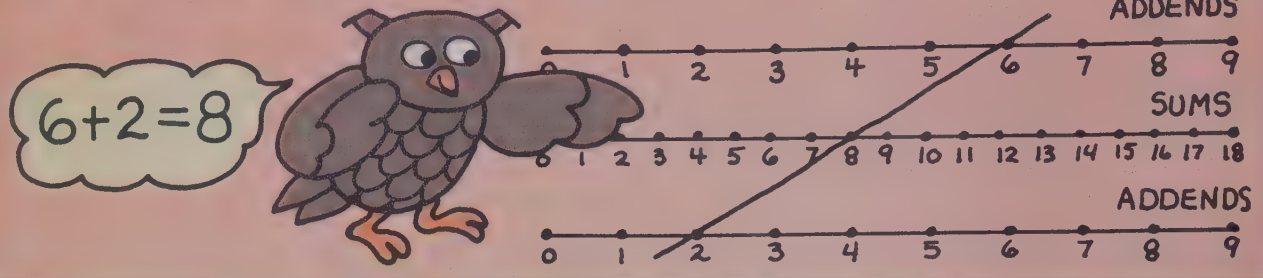
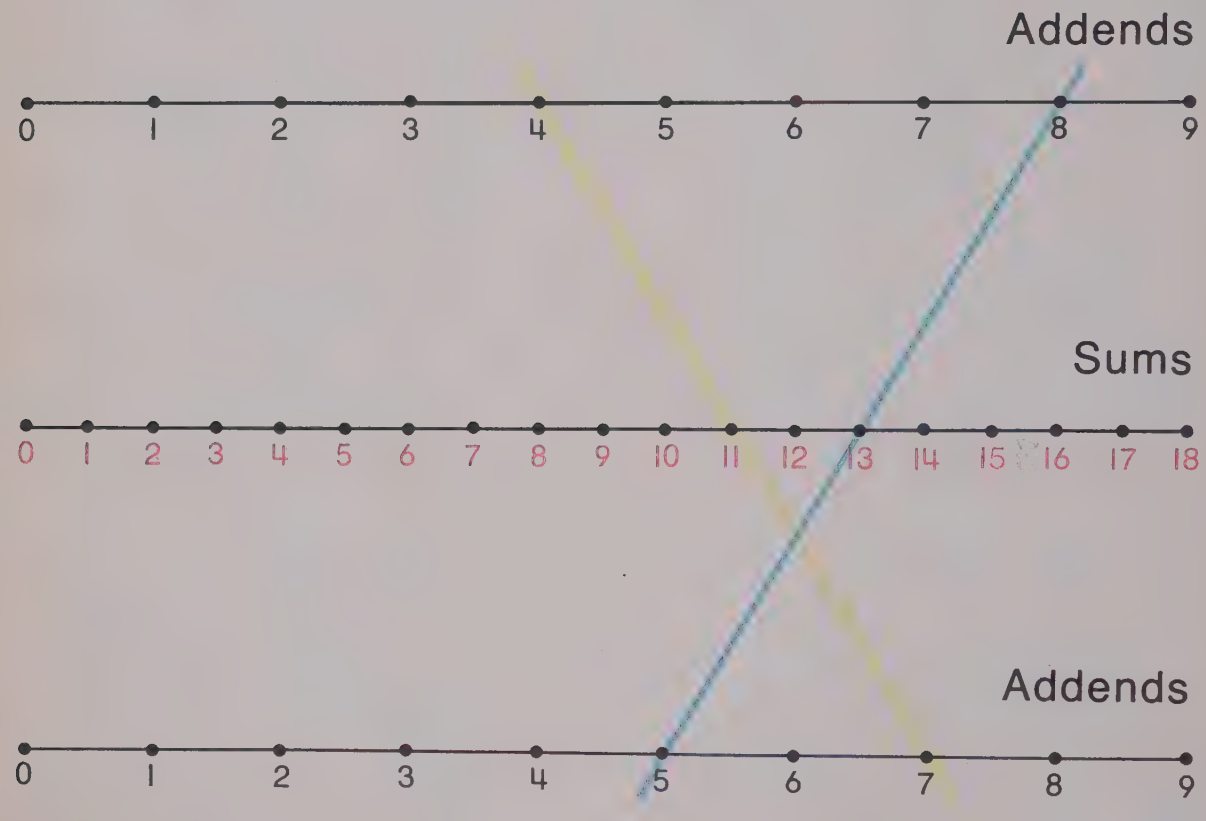
Let's have fun



The figure below is called a **nomograph.**

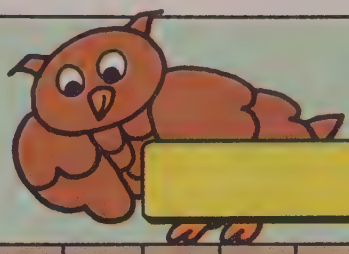
The blue line shows that 5 + 8 = 13.



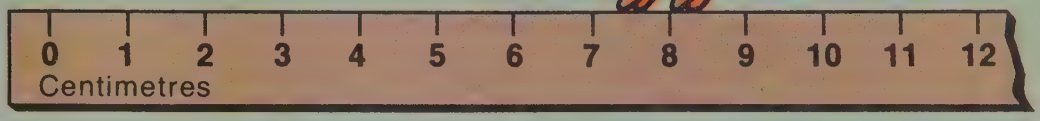
What does the yellow line show?

Can you find some other sums using your nomograph?

Let's do

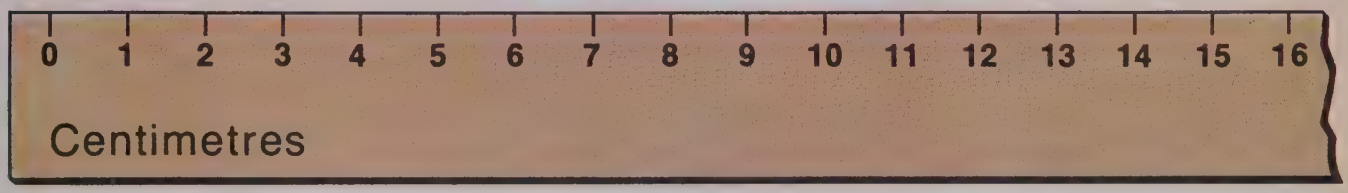


$12 - 5 = 7$



$11 - 5 = 6$

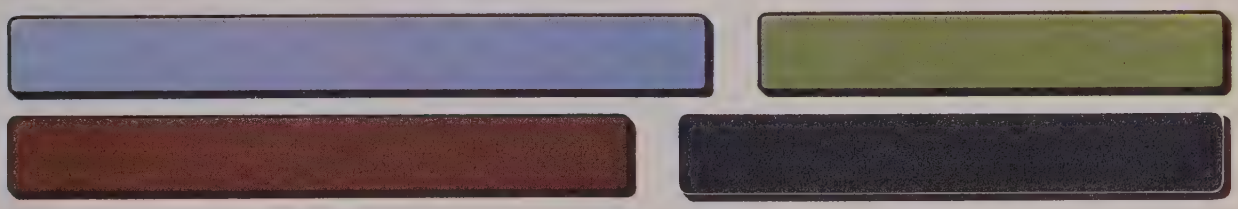
A 5-subtractor



Use a 5-subtractor to solve this equation.

$13 - 5 = \square$

Choose one of these subtractors.



Can you use your subtractor to help you complete these equations?

Your number

$10 - \_\_\_ = \square$

$11 - \_\_\_ = \square$

$12 - \_\_\_ = \square$

Your number

$13 - \_\_\_ = \square$

$14 - \_\_\_ = \square$

$15 - \_\_\_ = \square$

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Let's talk

Put in		Take out		How many?
13	–	6	=	☐
11	–	4	=	☐
14	–	7	=	☐
12	–	8	=	☐
15	–	9	=	☐

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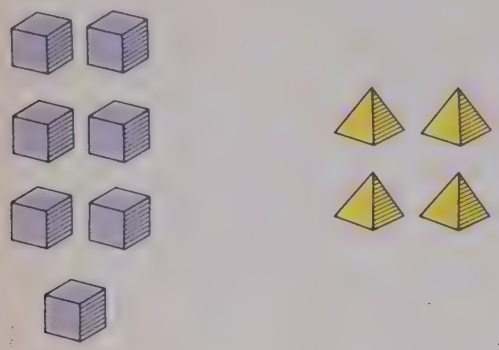
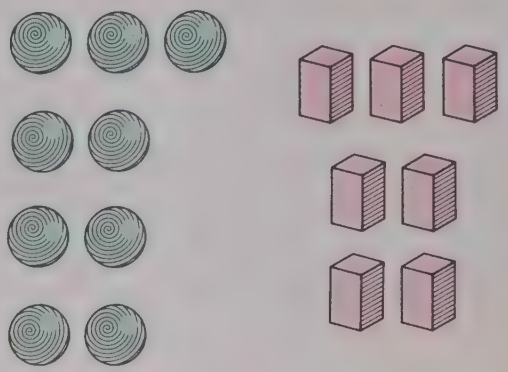
Solve the equations.

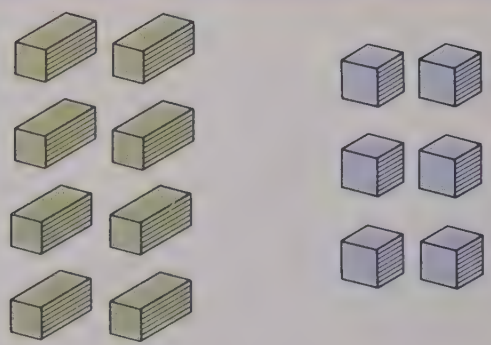


$11 - 4 = \square$



$16 - 7 = \square$

$16 - 8 = \square$



$14 - 6 = \square$

$13 - 4 = \square$

$11 - 8 = \square$

$15 - 6 = \square$

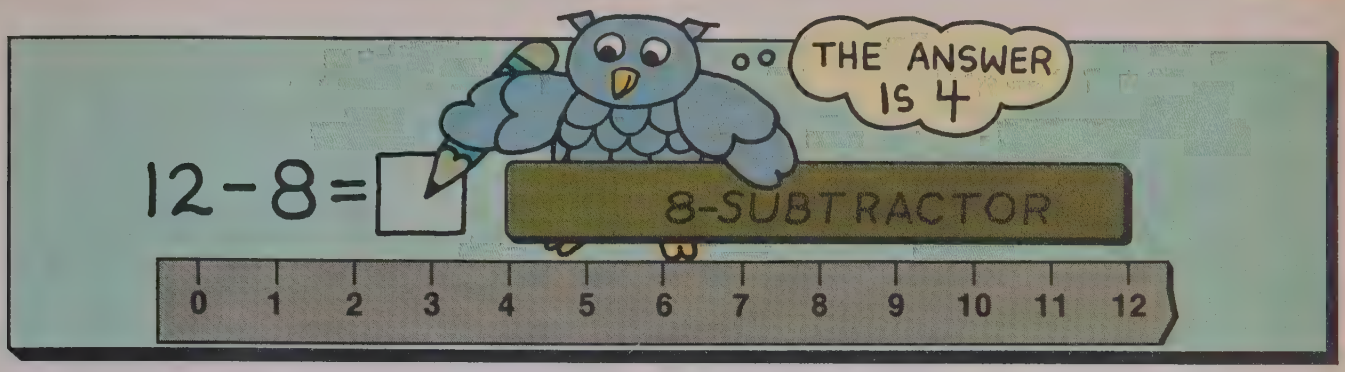
$12 - 5 = \square$

$14 - 7 = \square$

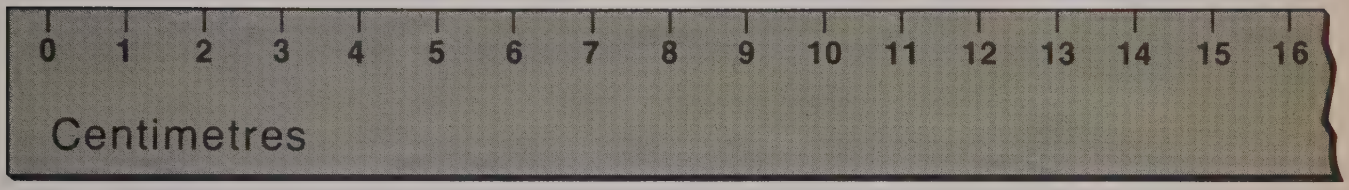
$17 - 8 = \square$

$12 - 3 = \square$

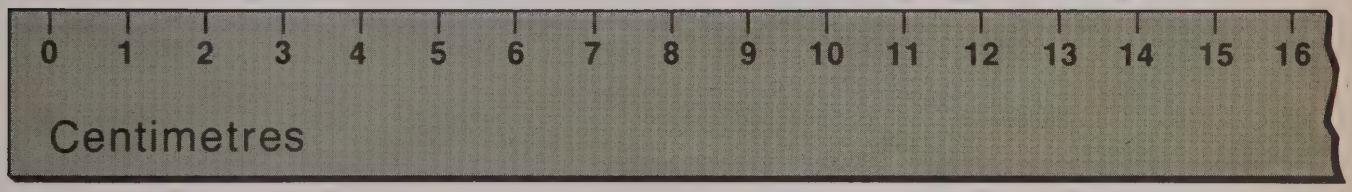
$16 - 9 = \square$



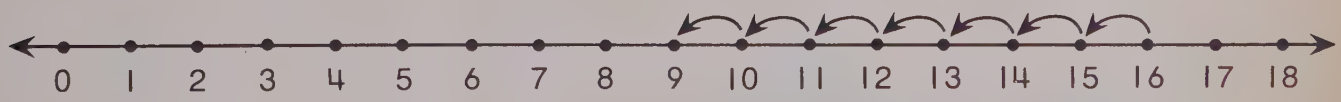
Find the differences.



$13 - 8 = \square$



$14 - 6 = \square$



$16 - 7 = \square$

$15 - 9 = \square$

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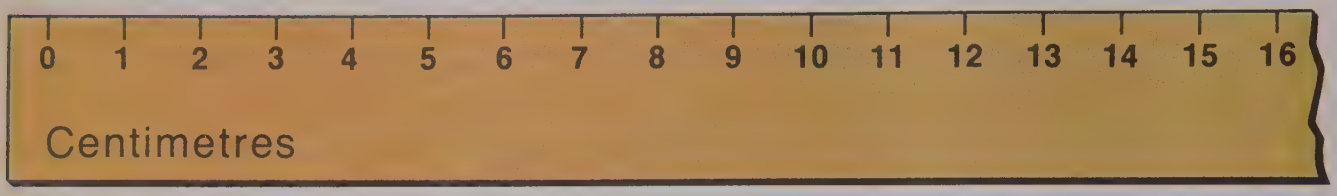
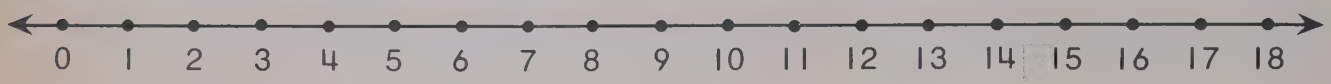
Find the differences.





$12 - 9 = \square$ $13 - 5 = \square$

$11 - 3 = \square$ $17 - 9 = \square$

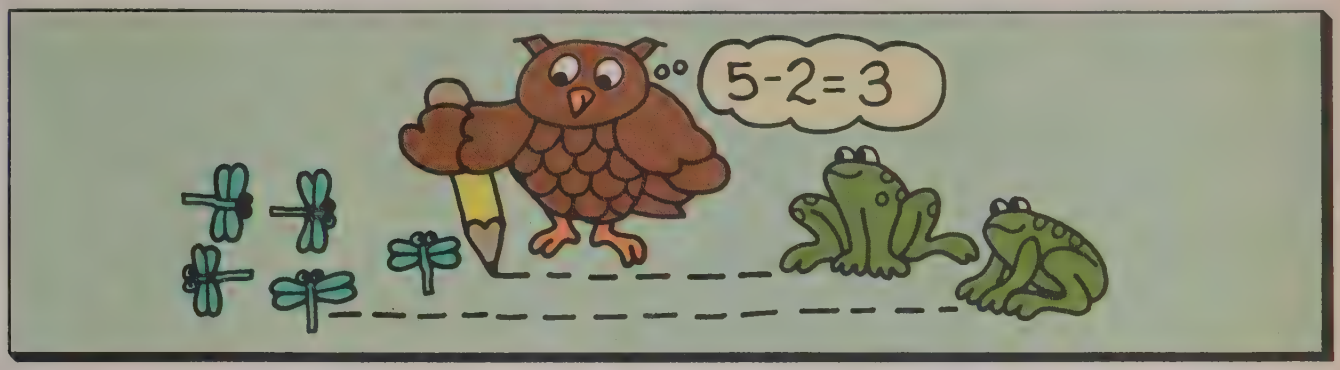
$15 - 6 = \square$ $10 - 3 = \square$

$14 - 7 = \square$ $14 - 6 = \square$

$16 - 8 = \square$ $12 - 5 = \square$

$13 - 6 = \square$ $11 - 4 = \square$

14 − 8	13 − 8	15 − 7	11 − 6	18 − 9	12 − 6
13 − 4	16 − 7	15 − 8	12 − 8	14 − 5	11 − 8



Draw matching lines. Then solve the equations.

$7 - 4 = \square$

$5 - 3 = \square$

$6 - 5 = \square$

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Short Stories

1 Sue had 12 peanuts.
She ate 5.
How many left? ____

2 Mike caught 11 fish.
He gave away 6.
How many did he keep? ____

3 Fran had 13 balloons.
7 of them popped.
How many now? ____

4 Mary has 4 glasses
and 7 straws.
How many more
straws than glasses? ____

5 There are 15 children
in the pool. 8 are
girls. How many are
boys? ____

6 Jan saw 14 ladybugs.
9 flew away. ____
How many now?

7 Tom caught 6 fish.
Bill caught 10.
How many more did
Bill catch? ____

8 Beth had 15 cents.
She spent 8 cents.
How much does she
have now? ____

9 Spiders have 8 legs.
Ants have 6.
How many more legs
do spiders have? ____

10 Kathy is 8 years old.
Alice is 12. How much
older is Alice? ____

Find the sums and differences.

7 + 7 = ☐	12 − 4 = ☐
6 + 5 = ☐	15 − 6 = ☐
5 + 7 = ☐	11 − 4 = ☐
9 + 7 = ☐	12 − 7 = ☐
6 + 8 = ☐	10 − 3 = ☐
8 + 7 = ☐	17 − 9 = ☐

8 + 3	6 + 4	3 + 9	16 − 7	14 − 5	10 − 5
8 + 8	14 − 8	9 + 6	8 + 9	15 − 7	13 − 9

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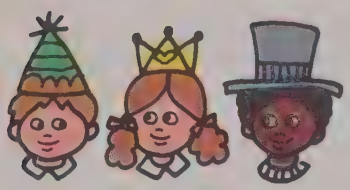
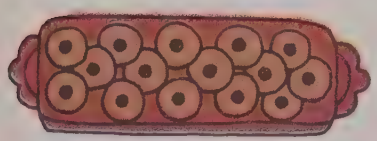
Short Stories

1 One spider has 8 legs. How many legs on 2 spiders? ____

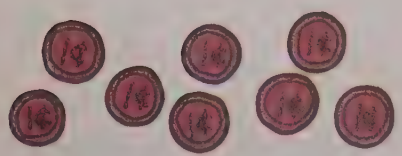
2 Ted scored 16 points. Fred scored 9. How many more did Ted score? ____



3 6 girls and 7 boys came to the party. How many children? ____



4 Marty baked 15 cookies. She ate 6. How many left? ____



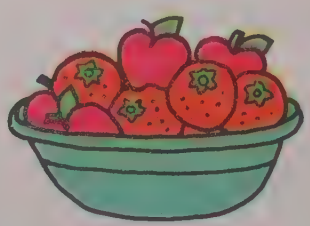
5 Nancy had 8 cents. She earned 7 cents. How much does she have now? ____

6 There are 8 chairs at the table. 5 children sit down. How many empty chairs? ____

7 Crayfish have 10 legs. Grasshoppers have 6. How many more legs do crayfish have? ____

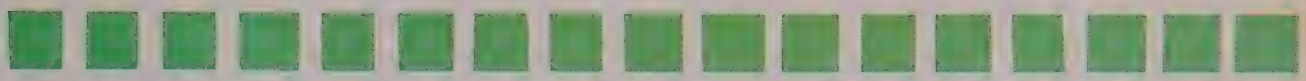
8 Peg bought 2 bows for 7 cents each. How much did she spend? ____

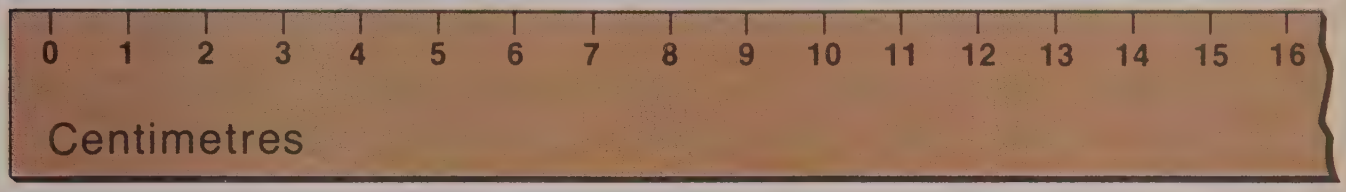
9 Sally is 7 years old. Her sister is 13. How much older is her sister? ____



10 There are 6 apples and 7 oranges in the bowl. How many in all? ____

Show you know





Solve.

12 − 5 = ☐	16 − 8 = ☐
15 − 7 = ☐	12 − 4 = ☐
14 − 5 = ☐	14 − 7 = ☐
13 − 6 = ☐	13 − 9 = ☐
11 − 2 = ☐	17 − 8 = ☐

14	12	11	8	6	7
−6	−3	−4	+4	+5	+7

Alan had 15 cents. He spent 8 cents. How much does he have left? ____

Sara lives 12 blocks from school. Ann lives only 5. How much farther does Sara live? ____

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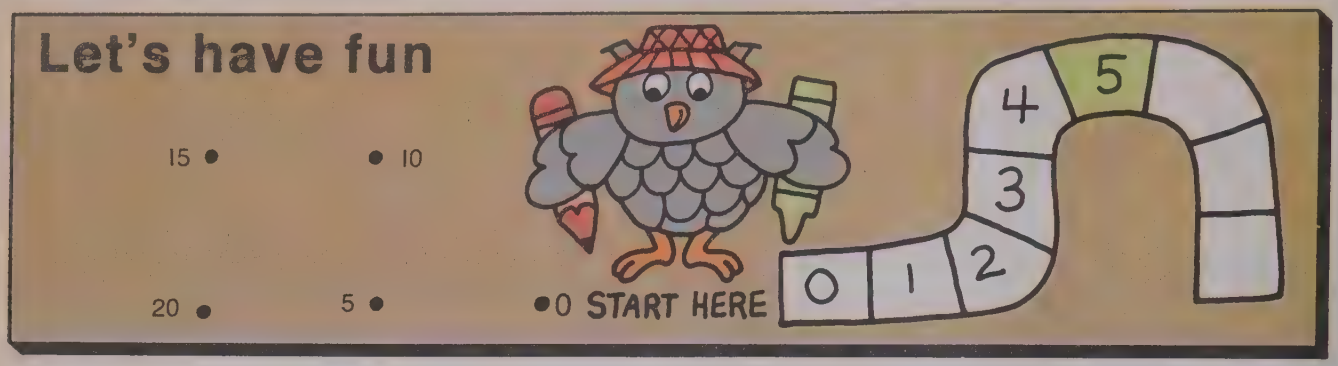
Let's have fun

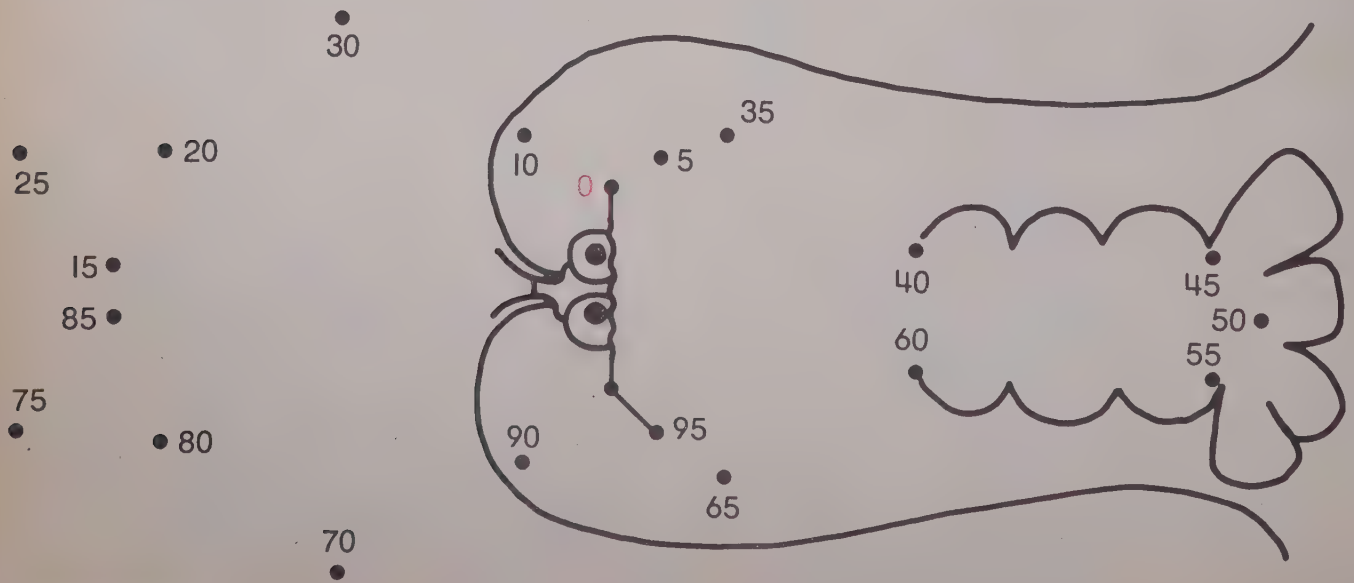


Complete the counting. Color every fifth box.

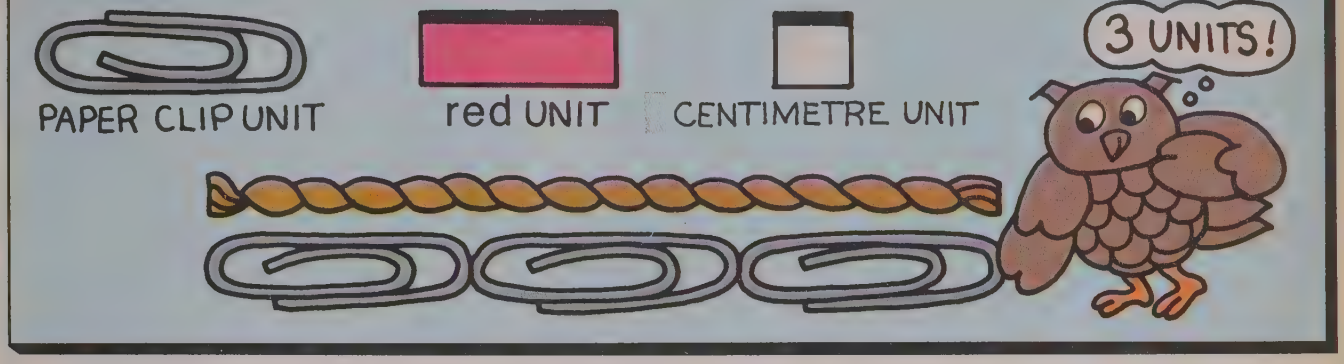
Complete the skip counting by fives.

0	5	10									

Skip count by fives to connect the dots.



Let's do



Can you make "trains" as long as each object?
Use the units shown above.

About _____ paper clip units

About _____ red units

About _____ centimetre units

About _____ paper clip units

About _____ red units

About _____ centimetre units

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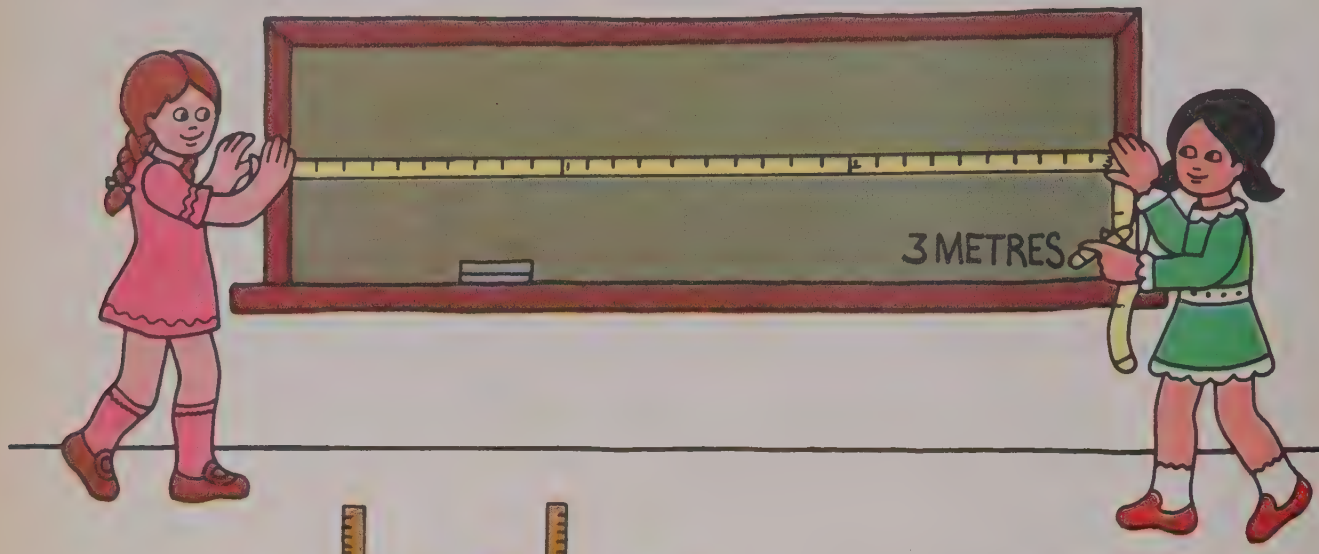
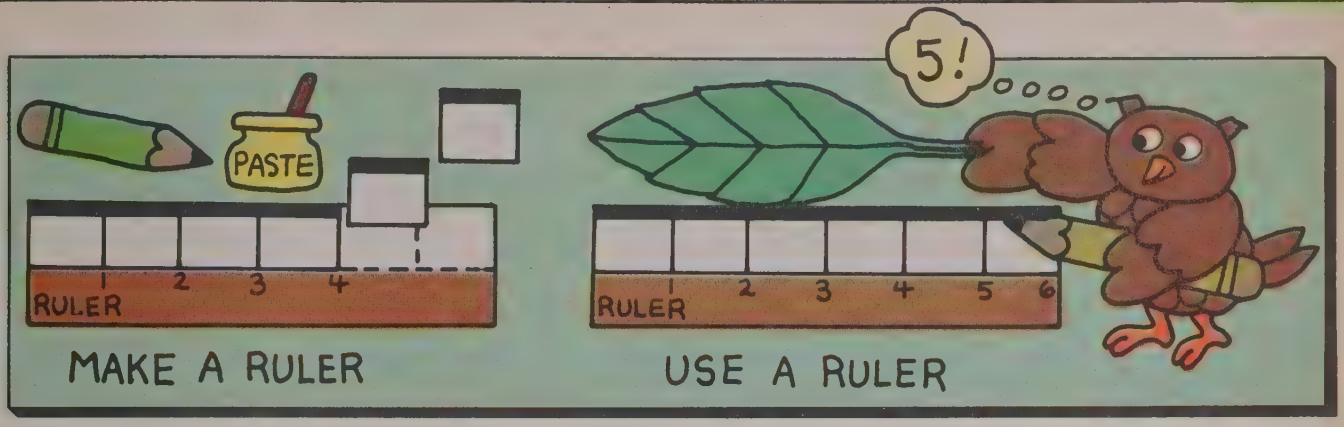
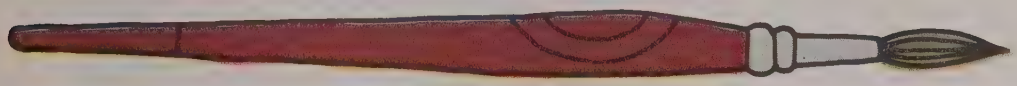
Let's talk





Use a ruler to measure each object.



This brush is ____ **centimetres** long.

This pencil is ____ **centimetres** long.

This chain is ____ **centimetres** long.

This nail is ____ **centimetres** long.

This straw is ____ **centimetres** long.

This string is ____ **centimetres** long.

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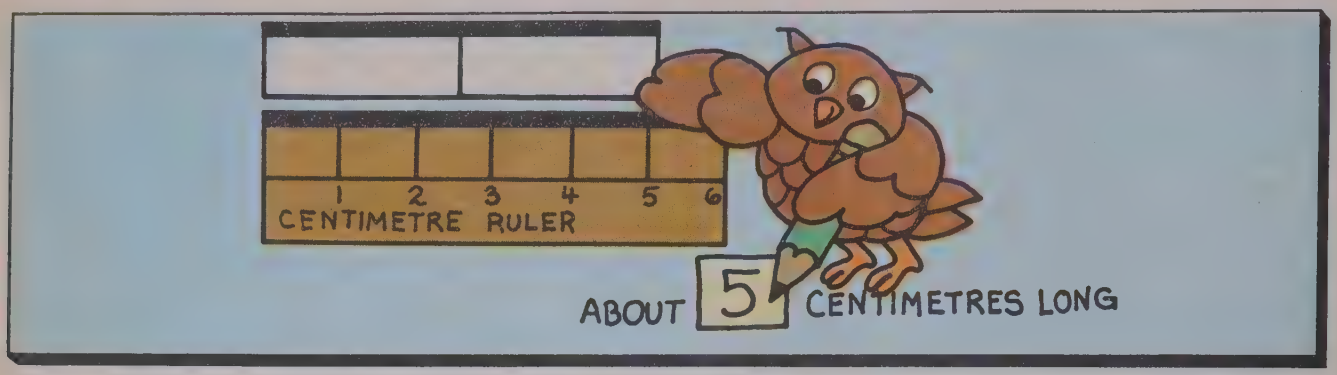


Measure the strip "trains." Use your rulers.

centimetres long

centimetres long

Use your centimetre ruler to measure the line segments.

A B

S T

E F

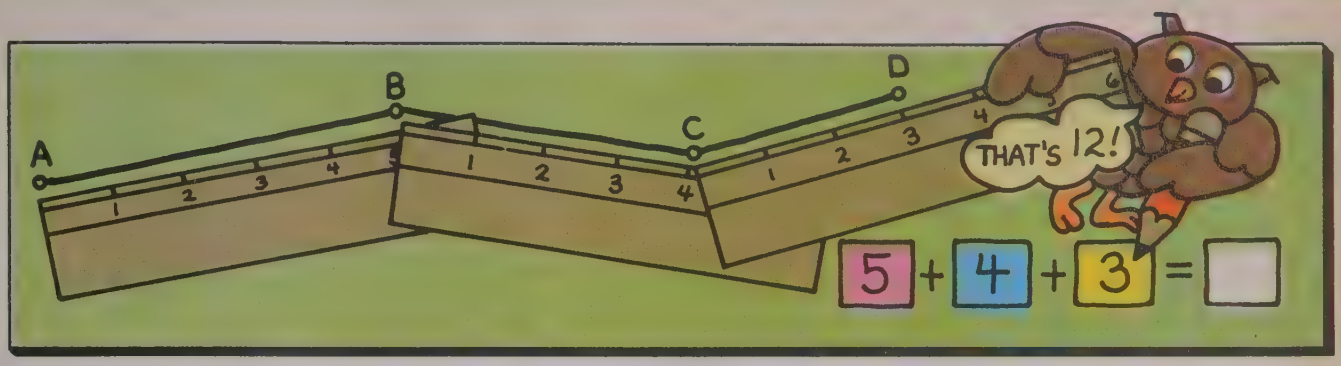
M N

J K

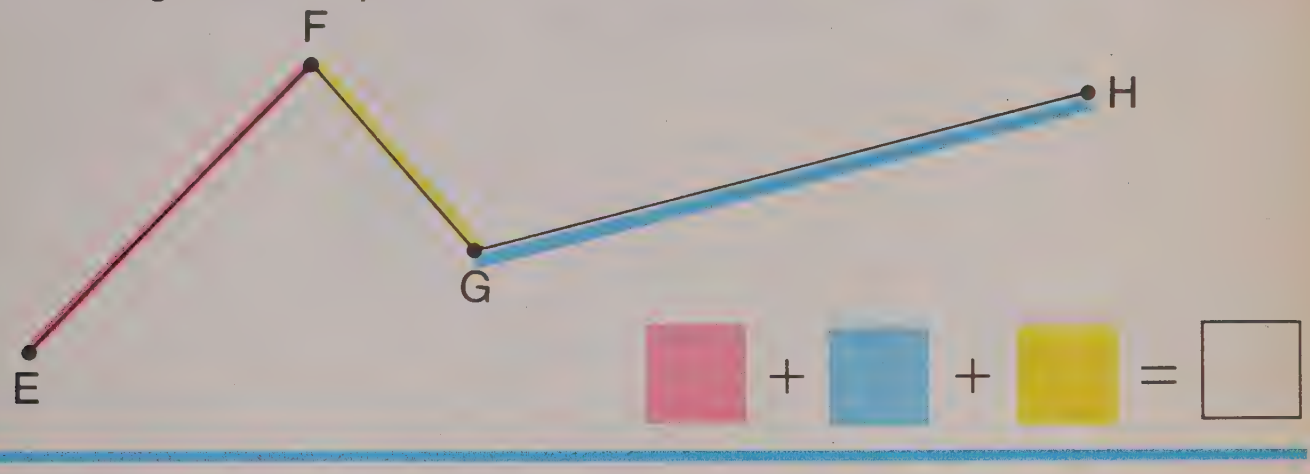
P Q

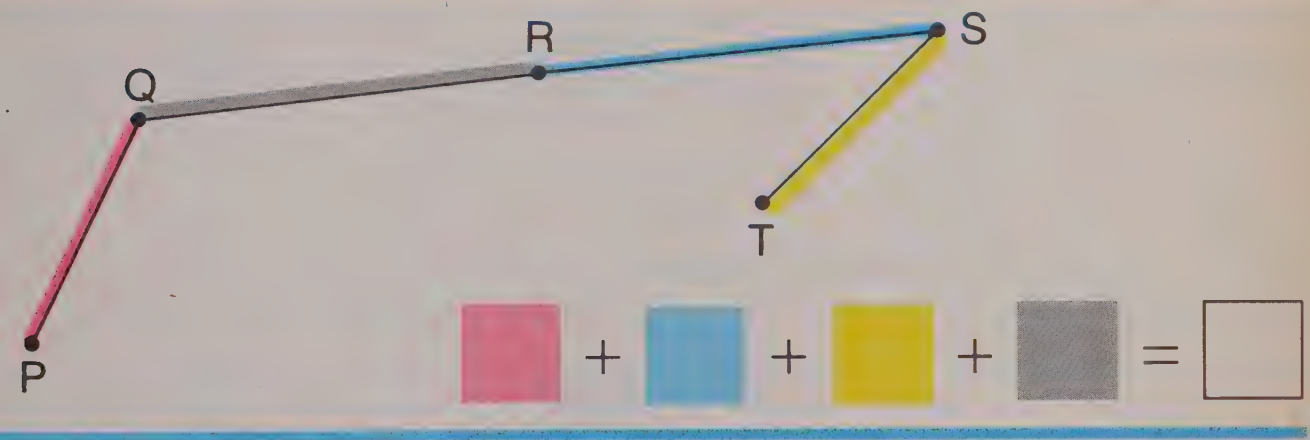
R S

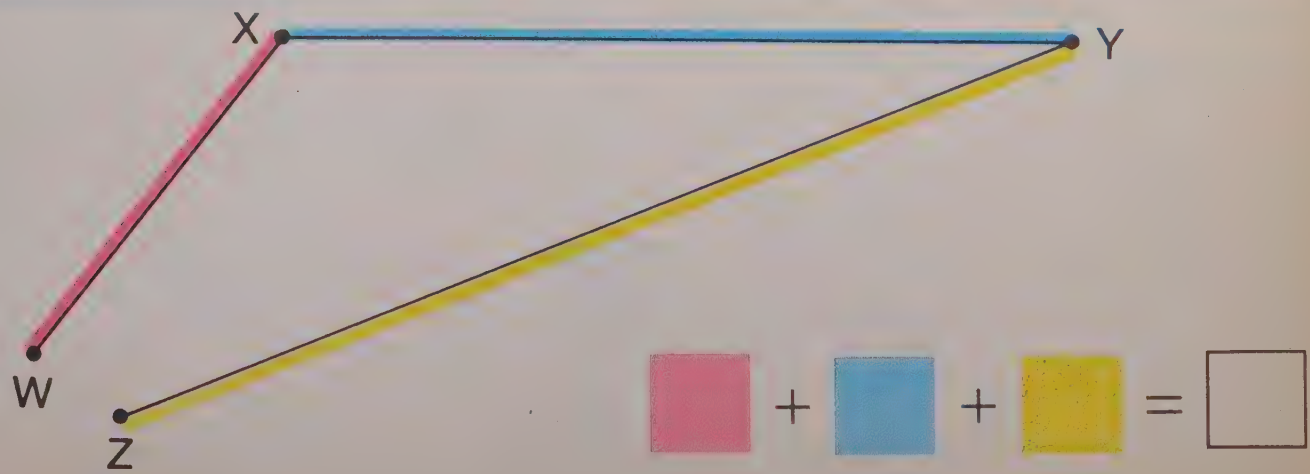
X Y



How long is each path?







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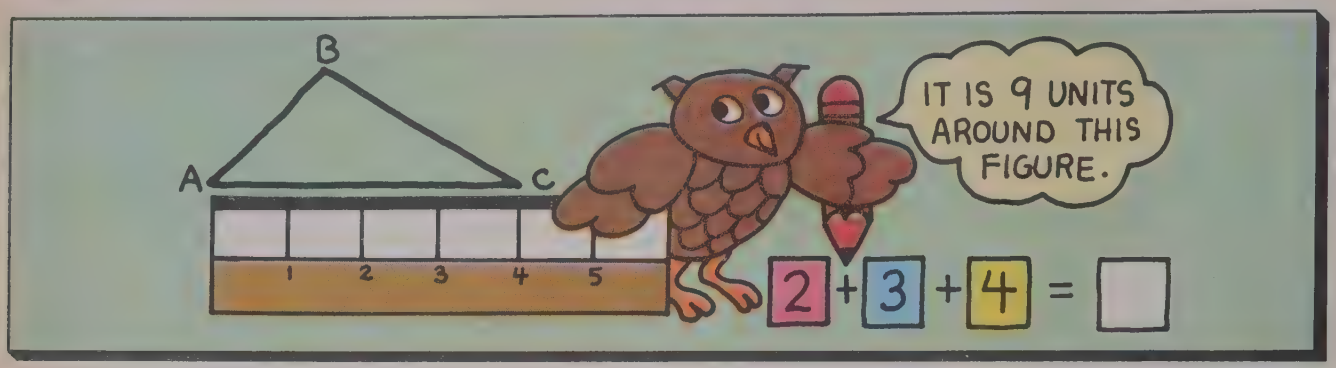
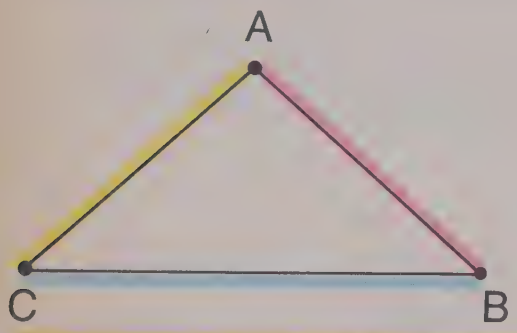
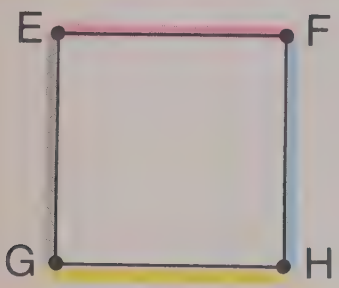


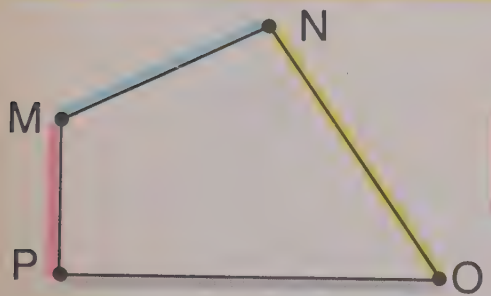
How far is it around each figure?



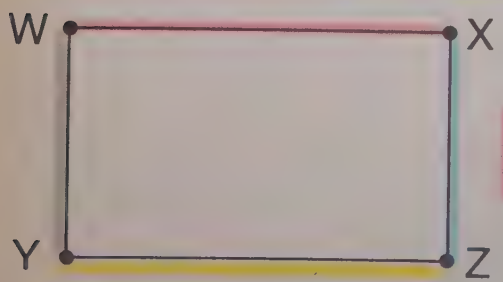
□ + □ + □ = □



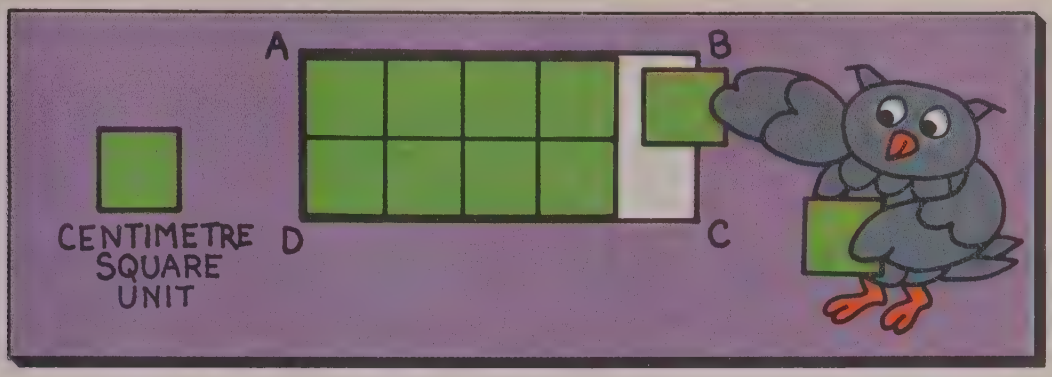
□ + □ + □ + □ = □



□ + □ + □ + □ = □

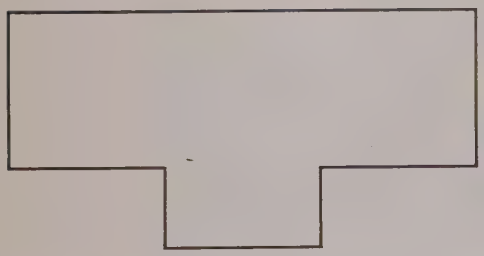


□ + □ + □ + □ = □

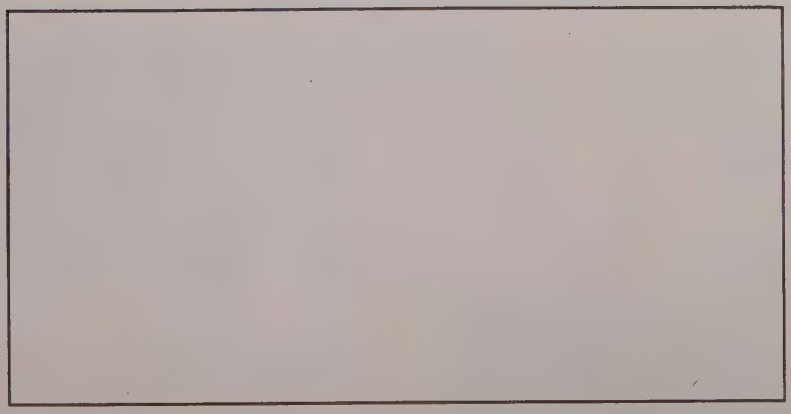


How many square units are needed to completely cover the inside of each figure?

centimetre squares



centimetre squares



centimetre squares

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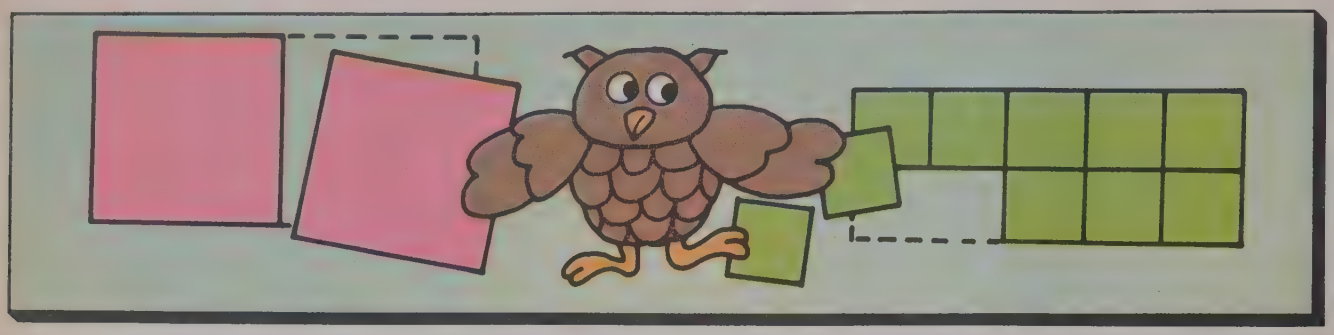
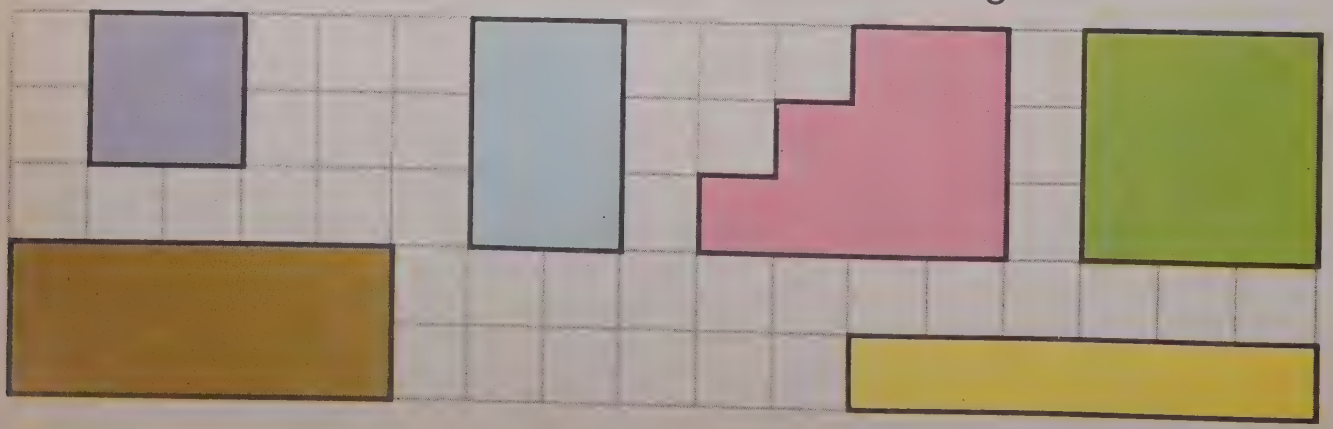


How many red squares are needed to cover each figure? Write the number on the figure.

How many centimetre squares are needed to cover each figure? Write the number on the figure.



Show you know

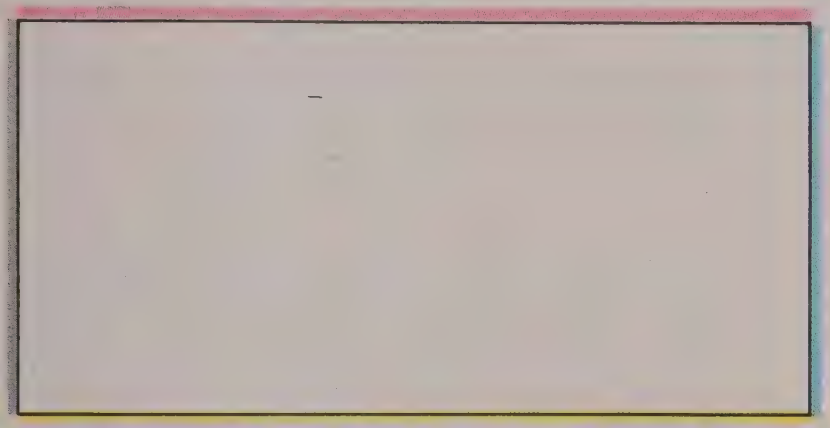
How long is the brush?

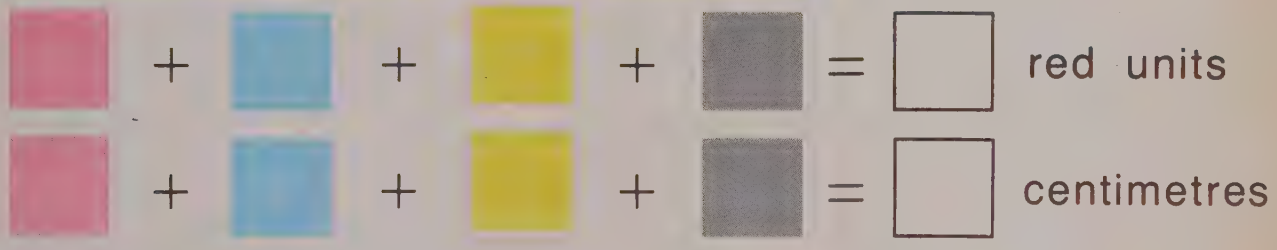
About ____ paper clip units long

About ____ red units long

About ____ centimetres long

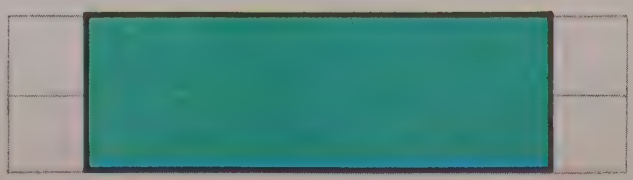
How far is it around this rectangle?





How many red square units are needed to cover the inside of the rectangle above?

How many centimetre square units are needed to cover the figure below?



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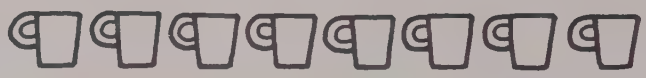
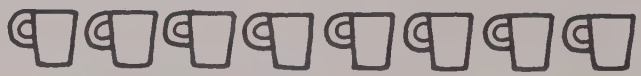
Let's have fun

1 HALF LITRE FILLS 2 QUARTER LITRES

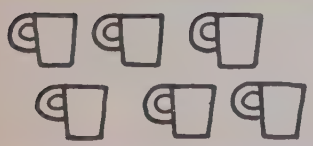
1 LITRE FILLS 2 HALF LITRES

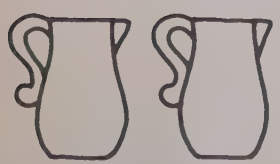
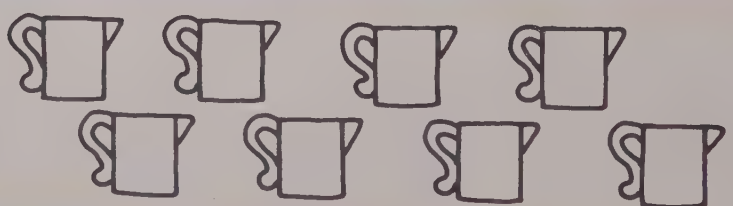
Color the correct number of containers.

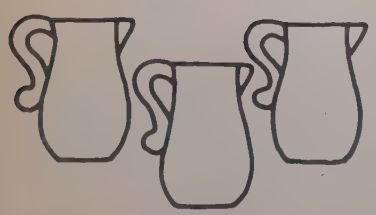
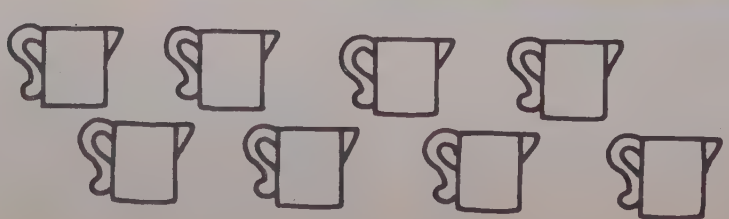
 fill 

 fill 

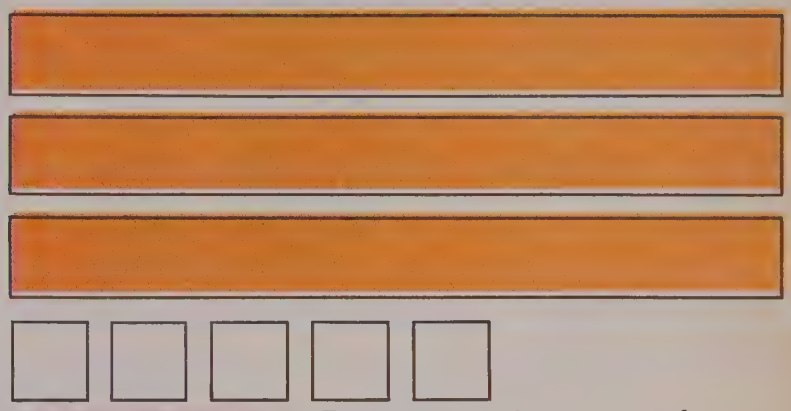
 fill 

 fill 

 fill 

 fill 

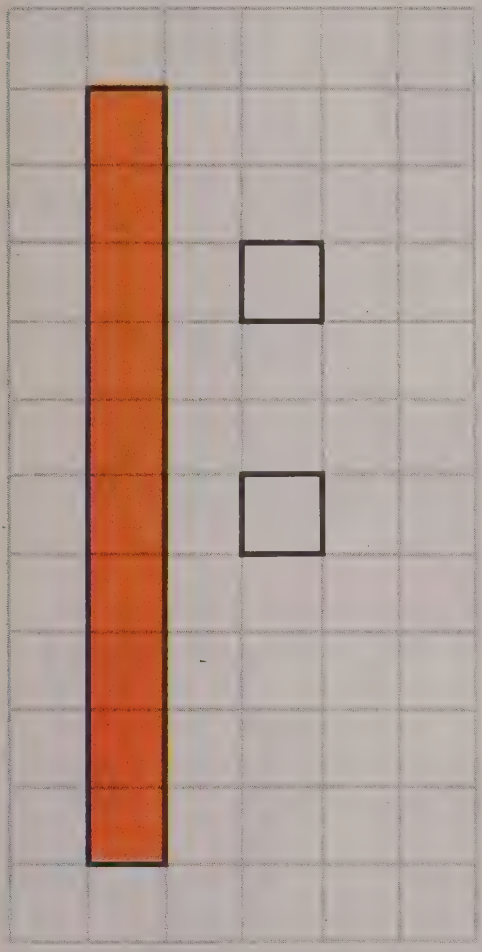
Let's do



3 tens and 5

35

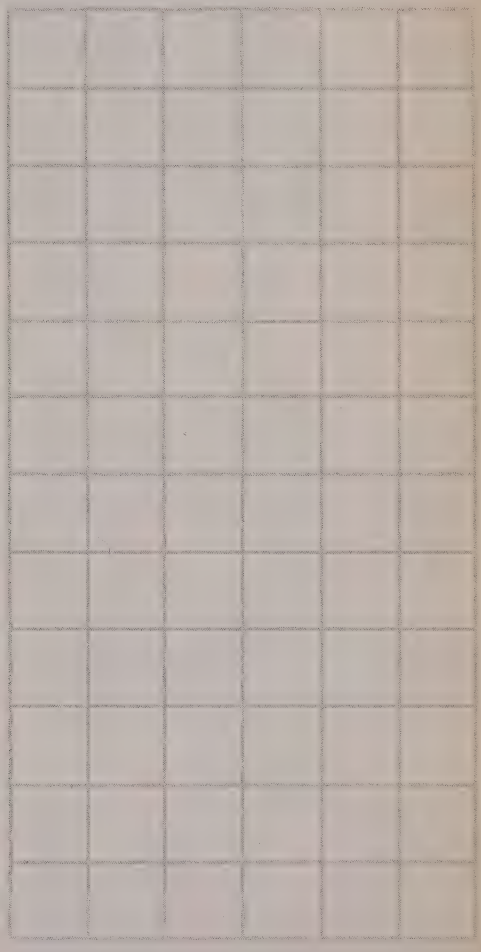
Put 1 ten and 2 in this set.



1 ten and 2

12

Draw a picture of the other strips here.



____ tens and ____

____

Can you find and record other ways to make two sets out of three orange and five white strips?

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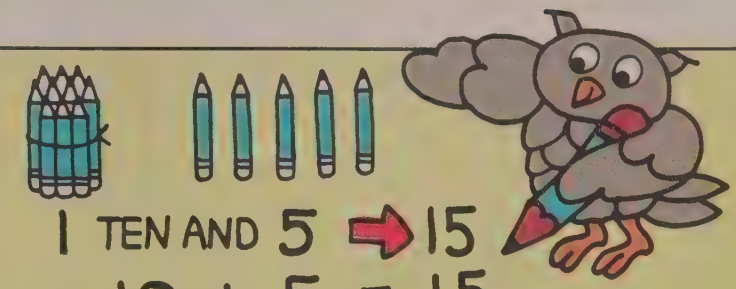
Let's talk

You have this much money.



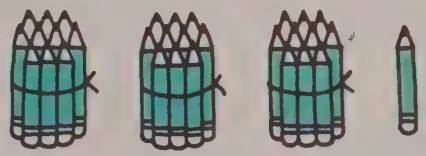
1 TEN AND 5 → 15

$10 + 5 = 15$

Find the missing numbers. Then solve the equation.

2 tens and 3 → 23

$20 + 3 = 23$

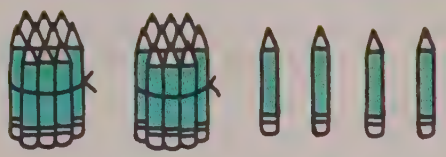


____ tens and ____ →

$30 + 1 =$ ☐

____ ten and ____ →

$10 + 4 =$ ☐



____ tens and ____ →

$20 + 4 =$ ☐

Solve the equations.

$30 + 4 =$ ☐

$10 + 6 =$ ☐

$40 + 2 =$ ☐

$80 + 2 =$ ☐

$20 + 9 =$ ☐

$90 + 2 =$ ☐

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Give the number of tens.
Then solve the equations.

3 tens and 2 tens → 5 tens in all.

30 + 20 = 50

____ tens and ____ tens → ____ tens in all.

40 + 30 = ____

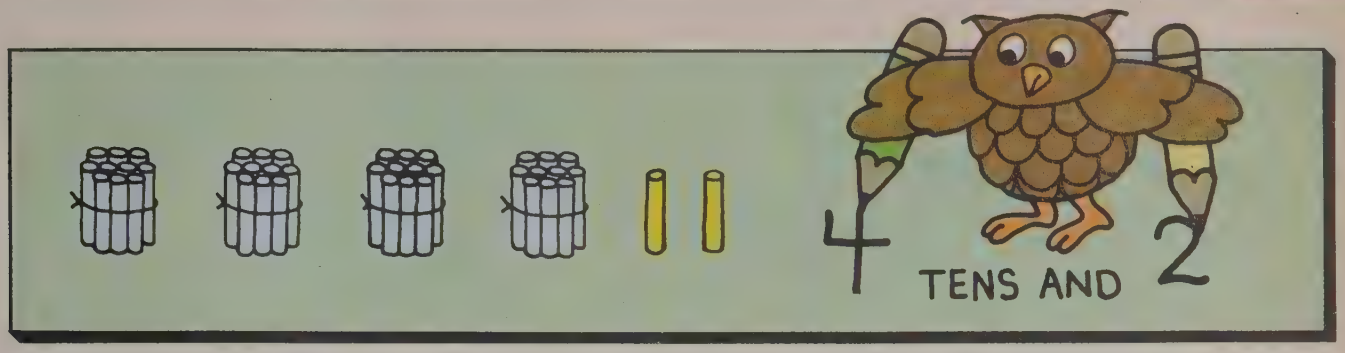
4 tens and 2 tens ____ tens

4 + 2 = ☐ → 40 + 20 = ☐

5 tens and 3 tens ____ tens

5 + 3 = ☐ → 50 + 30 = ☐

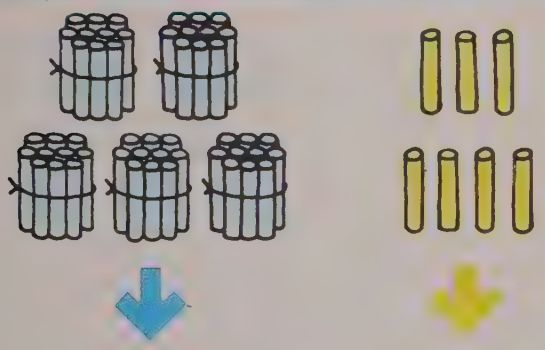
20 + 50 ☐	60 + 20 ☐
40 + 10 ☐	70 + 10 ☐
30 + 30 ☐	50 + 40 ☐



Fill the blanks. Then find the sums.

7 tens and 5

$$\begin{array}{r} 40 \\ +\ 30 \\ \hline 70 \end{array} \qquad \begin{array}{r} 3 \\ +\ 2 \\ \hline 5 \end{array} \qquad \begin{array}{r} 43 \\ +\ 32 \\ \hline 75 \end{array}$$



____ tens and ____

$$\begin{array}{r} 20 \\ +\ 30 \\ \hline \end{array} \qquad \begin{array}{r} \\ +\ 4 \\ \hline \end{array} \qquad \begin{array}{r} 23 \\ +\ 34 \\ \hline \end{array}$$

____ tens and ____

$$\begin{array}{r} 40 \\ +\ 20 \\ \hline \end{array} \qquad \begin{array}{r} 2 \\ +\ 5 \\ \hline \end{array} \qquad \begin{array}{r} 42 \\ +\ 25 \\ \hline \end{array}$$

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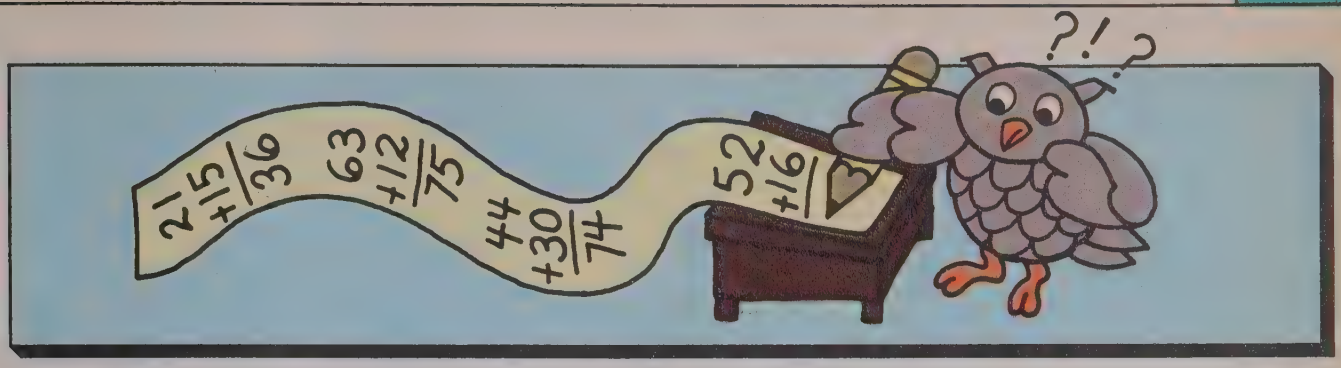
Solve.

30 + 20 = 50	4 + 3 = 7	34 + 23 = 57
50 + 10 = 60	3 + 2 = 5	53 + 12 = 65
60 + 20 = 80	1 + 4 = 5	61 + 24 = 85
30 + 10 = 40	6 + 3 = 9	36 + 13 = 49
20 + 30 = 50	4 + 2 = 6	24 + 32 = 56
40 + 20 = 60	1 + 6 = 7	41 + 26 = 67
50 + 10 = 60	4 + 4 = 8	54 + 14 = 68
60 + 30 = 90	5 + 2 = 7	65 + 32 = 97
10 + 30 = 40	7 + 1 = 8	17 + 31 = 48
50 + 30 = 80	4 + 4 = 8	54 + 34 = 88



Find the sums.

A

23 + 12	41 + 13	22 + 14
32 + 11	12 + 13	24 + 31

B

56 + 22	13 + 74	55 + 32
76 + 21	64 + 33	17 + 81

C

46 + 32	37 + 20	40 + 23
43 + 25	56 + 10	34 + 52
50 + 29	65 + 30	34 + 43

D

62 + 17	43 + 4	56 + 12
24 + 5	7 + 61	3 + 44
62 + 15	74 + 5	14 + 81

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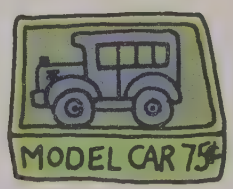
Short Stories

1 Marty had 30 cents.
She earned 15 cents.
How much does
she have now? _____

2 Willy had 75 baseball cards.
He bought 12 more.
How many does
he have now? _____

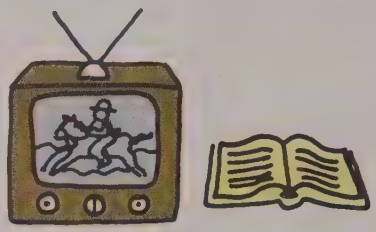
3 Football team: 11 players.
Baseball team: 9 players.
How many more on a
football team? _____



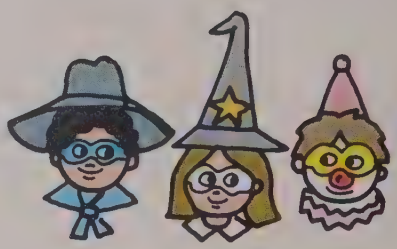
4 Model cars cost 75 cents.
The tax is 4 cents.
How much in all? _____

5 The Tigers scored 6 runs.
The Twins scored only 5.
How many runs
were scored? _____

6 Ann has 50 cents.
Mary has 25 cents.
How much in all? _____



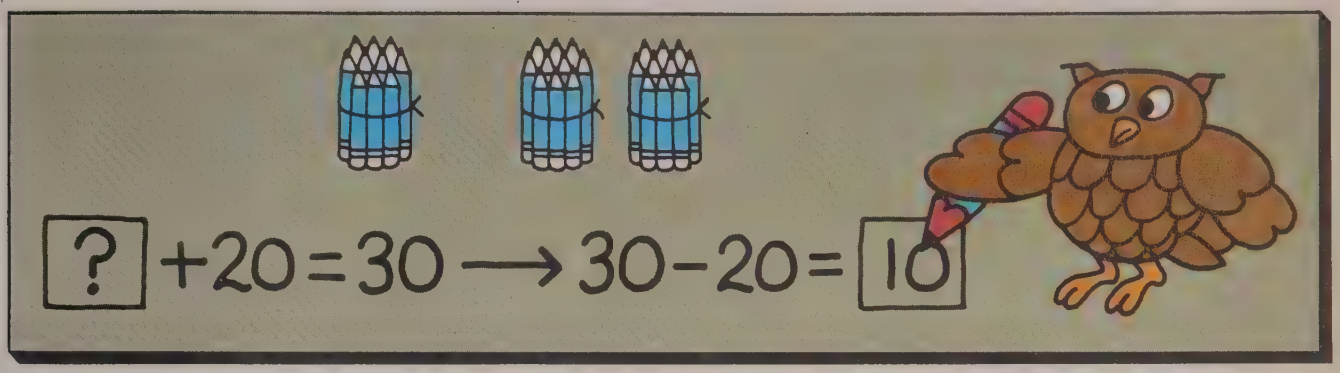
7 Frank watched TV for
30 minutes. Then he
read for 45. How long
for both? _____



8 15 children came to Sue's
party. 8 were girls.
How many were boys? _____

9 The Bucks scored 84 points.
The Lakers scored 15 more
than the Bucks. How many
did the Lakers score? _____

10 Pam is 13 years old.
Her sister is 8. How much
older is Pam? _____



Solve the equations.

$\square + 20 = 50 \longrightarrow 50 - 20 = \square$

$\square + 30 = 40 \longrightarrow 40 - 30 = \square$

$\square + 4 = 7 \longrightarrow 7 - 4 = \square$

$\square + 40 = 70 \longrightarrow 70 - 40 = \square$

$\square + 6 = 9 \longrightarrow 9 - 6 = \square$

$\square + 60 = 90 \longrightarrow 90 - 60 = \square$

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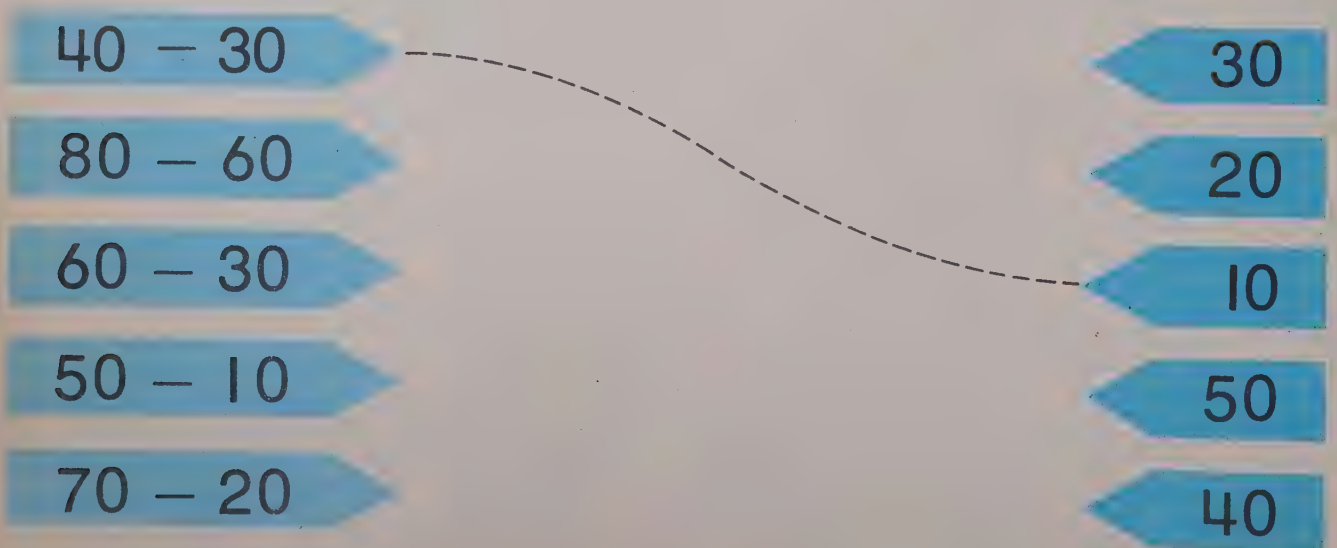
Find the differences.

7 − 2	70 − 20	6 − 4	60 − 40	9 − 2	90 − 20
8 − 5	80 − 50	5 − 2	50 − 20	7 − 5	70 − 50
40 − 10	60 − 20	70 − 30	50 − 30	90 − 30	80 − 60

Complete the matching.



56 -14	50 6 -10 -4 40 2	56 -14 42

Find the differences.

48 −23	40 8 −20 −3 20 5	48 −23 25
65 −21	60 5 −20 −1	65 −21
68 −2	60 8 −0 −2	68 −2
85 −34	80 5 −30 −4	85 −34

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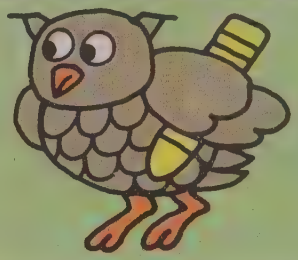
Find the differences.

60 −20 40	5 −3 2	65 −23 42	70 −20	8 −6	78 −26
50 −10	6 −3	56 −13	40 −10	9 −7	49 −17
90 −60	9 −4	99 −64	70 −20	6 −5	76 −25

87 −34	36 −15	52 −30	75 −32	68 −51	47 −25
29 −5	34 −10	77 −33	96 −80	84 −3	67 −23

$$\begin{array}{rrr} 99 & 88 & 77 \\ -63 & -34 & +11 \end{array}$$



Solve.

A

$$\begin{array}{rrr} 56 & 23 & 17 \\ +13 & +42 & +42 \end{array}$$

$$\begin{array}{rrr} 54 & 63 & 75 \\ +20 & +14 & +3 \end{array}$$

B

$$\begin{array}{rrr} 68 & 73 & 49 \\ -25 & -50 & -36 \end{array}$$

$$\begin{array}{rrr} 76 & 95 & 87 \\ -3 & -52 & -34 \end{array}$$

C

$$\begin{array}{rrr} 24 & 44 & 36 \\ +11 & -21 & +21 \end{array}$$

$$\begin{array}{rrr} 56 & 17 & 32 \\ -20 & -5 & +24 \end{array}$$

$$\begin{array}{rrr} 12 & 43 & 51 \\ +12 & -12 & +13 \end{array}$$

D

$$\begin{array}{rrr} 62 & 67 & 85 \\ +27 & -35 & -24 \end{array}$$

$$\begin{array}{rrr} 54 & 36 & 94 \\ +33 & +53 & -72 \end{array}$$

$$\begin{array}{rrr} 76 & 43 & 59 \\ -43 & +45 & -18 \end{array}$$

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Short Stories

1 Jan read 23 pages.
Then she read 15.
How many pages? ____

2 Doug lives 12 blocks from school. How far does he walk going both ways? ____

3 Norma had 50 cents.
She spent 30 cents.
How much left? ____

4 Laura has a butterfly collection. She has 15 butterflies in one case and 12 in another. How many? ____

5 The Jets scored 38 points.
The Bears scored 24. How many more did the Jets score? ____

6 There are 28 children in Marsha's class. 14 are girls. How many boys? ____

7 Kathy's father drove 52 kilometres the first hour.
He drove only 46 the second.
How far in all? ____

8 Joe had 78 cents.
He spent a quarter.
How much left? ____

9 Sam's team scored 9 runs.
The other team scored 7.
How many runs in all? ____

10 Helen scored 98 in spelling.
Tom scored 93. How much higher is Helen's score? ____

Show you know

Solve.

34 + 21	56 + 32	15 + 23	56 − 36	78 − 3	95 − 52
38 + 20	56 + 3	17 + 32	62 − 40	59 − 16	84 − 32
24 + 24	67 − 32	33 + 46	56 − 40	43 + 35	37 − 7
48 − 16	12 + 75	65 − 12	38 + 50	99 − 88	75 + 4

Fred had 45 cents.
He earned 20 cents.
How much does he have now? ____

The record costs 78 cents.
Linda has only 65 cents.
How much more does she need? ____

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Let's have fun

The numbers 1, 4, and 9 are square numbers.

Can you show some other square numbers below?

Looking back

Solve the equations.

$4 + 5 = \square$

$5 + 4 = \square$

$8 + 2 = \square$

$2 + 8 = \square$

$(2 + 4) + 3 = \square$

$2 + (4 + 3) = \square$

$(6 + 3) + 1 = \square$

$6 + (3 + 1) = \square$

$6 + 5 = \square$

$8 + 8 = \square$

$8 + 6 = \square$

$9 + 6 = \square$

$7 + 6 = \square$

$9 + 5 = \square$

$9 + 8 = \square$

$4 + 7 = \square$

$12 - 8 = \square$

$13 - 6 = \square$

$15 - 9 = \square$

$18 - 9 = \square$

$17 - 8 = \square$

$14 - 5 = \square$

$11 - 6 = \square$

$10 - 7 = \square$

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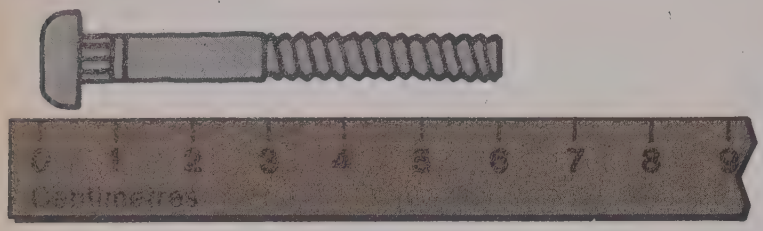
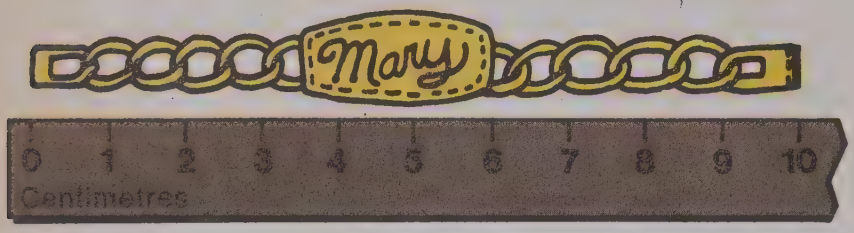
How long?

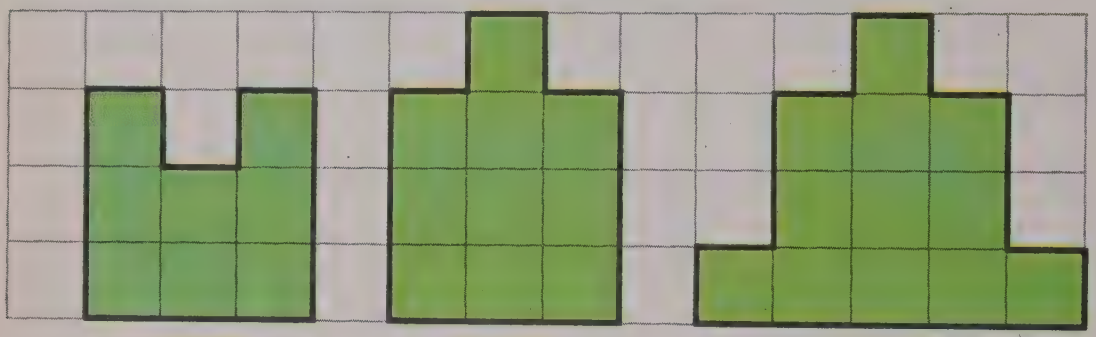


Centimetres



Centimetres

How many square centimetres?



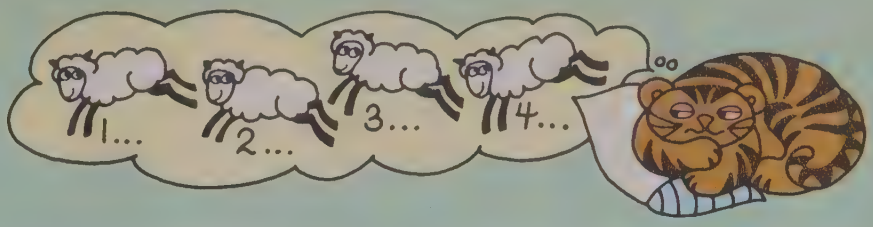
Find the sums.

51	37	46	23	12	56
+26	+12	+52	+23	+84	+32

Find the differences.

76	87	68	74	59	44
−34	−52	−17	−50	−39	−13

Let's do



Can you count to one hundred?
Try counting these squares.

ten →	1	2	3	4	5	6	7	8	9	10
ten →	11	12	13	14	15	16	17	18	19	20
ten →	21	22	23	24	25	26	27	28	29	30
ten →	31	32	33	34	35	36	37	38	39	40
ten →	41	42	43	44	45	46	47	48	49	50
ten →	51	52	53	54	55	56	57	58	59	60
ten →	61	62	63	64	65	66	67	68	69	70
ten →	71	72	73	74	75	76	77	78	79	80
ten →	81	82	83	84	85	86	87	88	89	90
ten →	91	92	93	94	95	96	97	89	99	100

Can you draw 100 of something?

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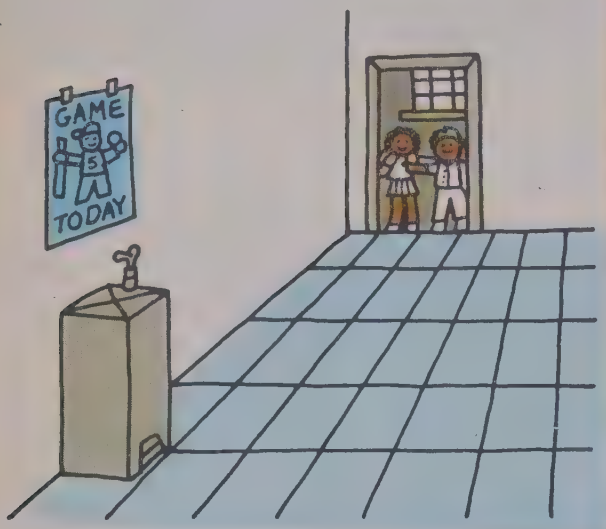
Let's talk

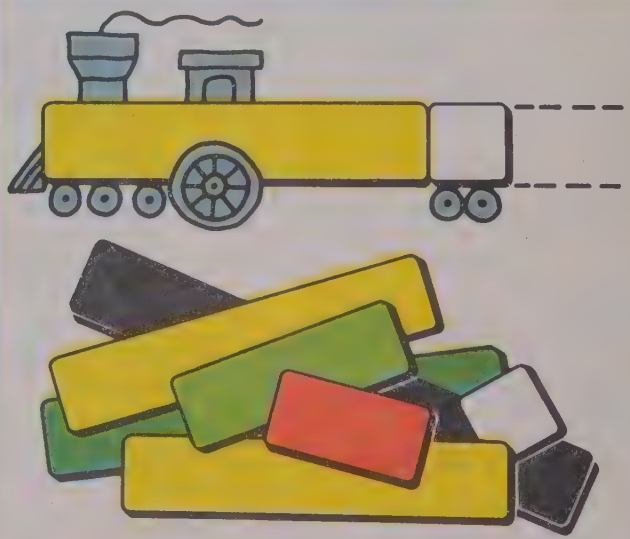
Try one of these activities.
Report your findings to the class.



How far is 100 steps?

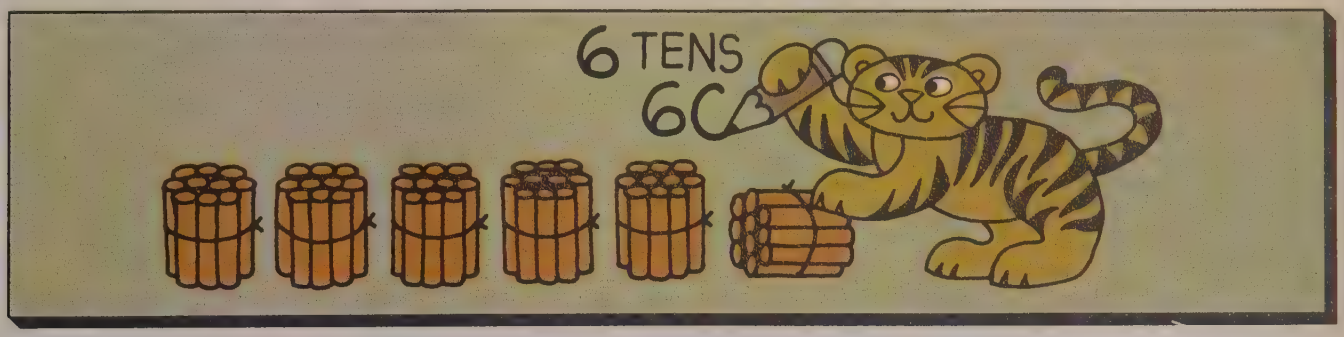
How long does it take you to breathe 100 times?

Can you find 100 of anything in your room?



Can you make a 100-train with strips?

How long is a chain of 100 paper clips?



Give the numbers of tens.
Then write the numeral.

7 tens

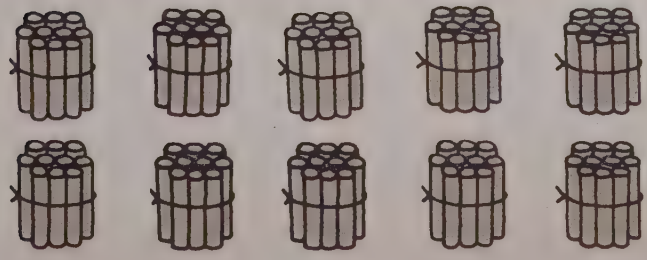
We write 70.

____ tens

We write ____.

____ tens

We write ____.



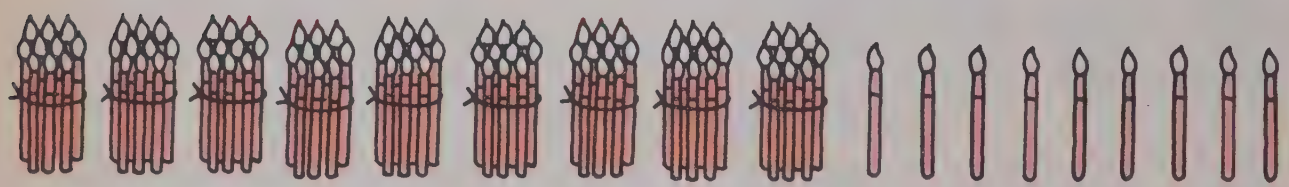
____ tens

We write 100.

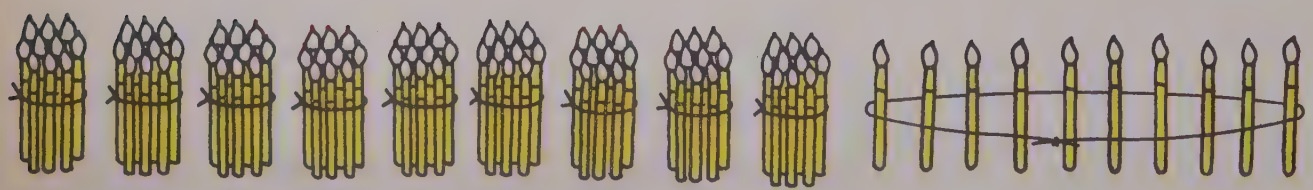
Fill the blanks.

9 tens and 7 We write 97.

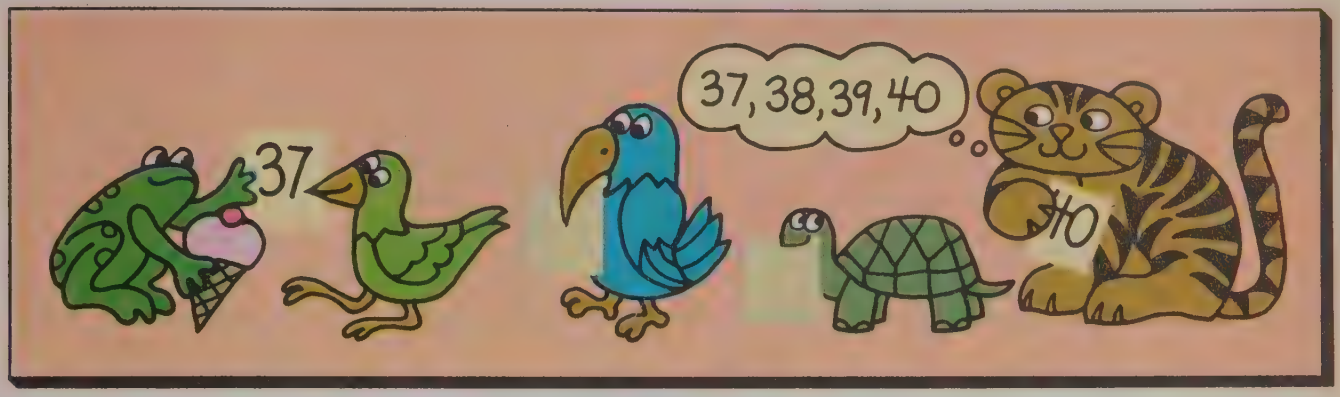
____ tens and ____ We write ____.



____ tens and ____ We write ____.



10 tens and 0 We write ____.



Give the next number.

29, 30	39, 40	49, ___	59, ___
69, ___	79, ___	89, ___	99, ___

Give the missing numbers.

26	27				31				
64	65	66							
83	84	85							
91	92	93							

Complete the counting by tens.

10	20	30	40						

Complete the counting by fives.

55	60	65	70						

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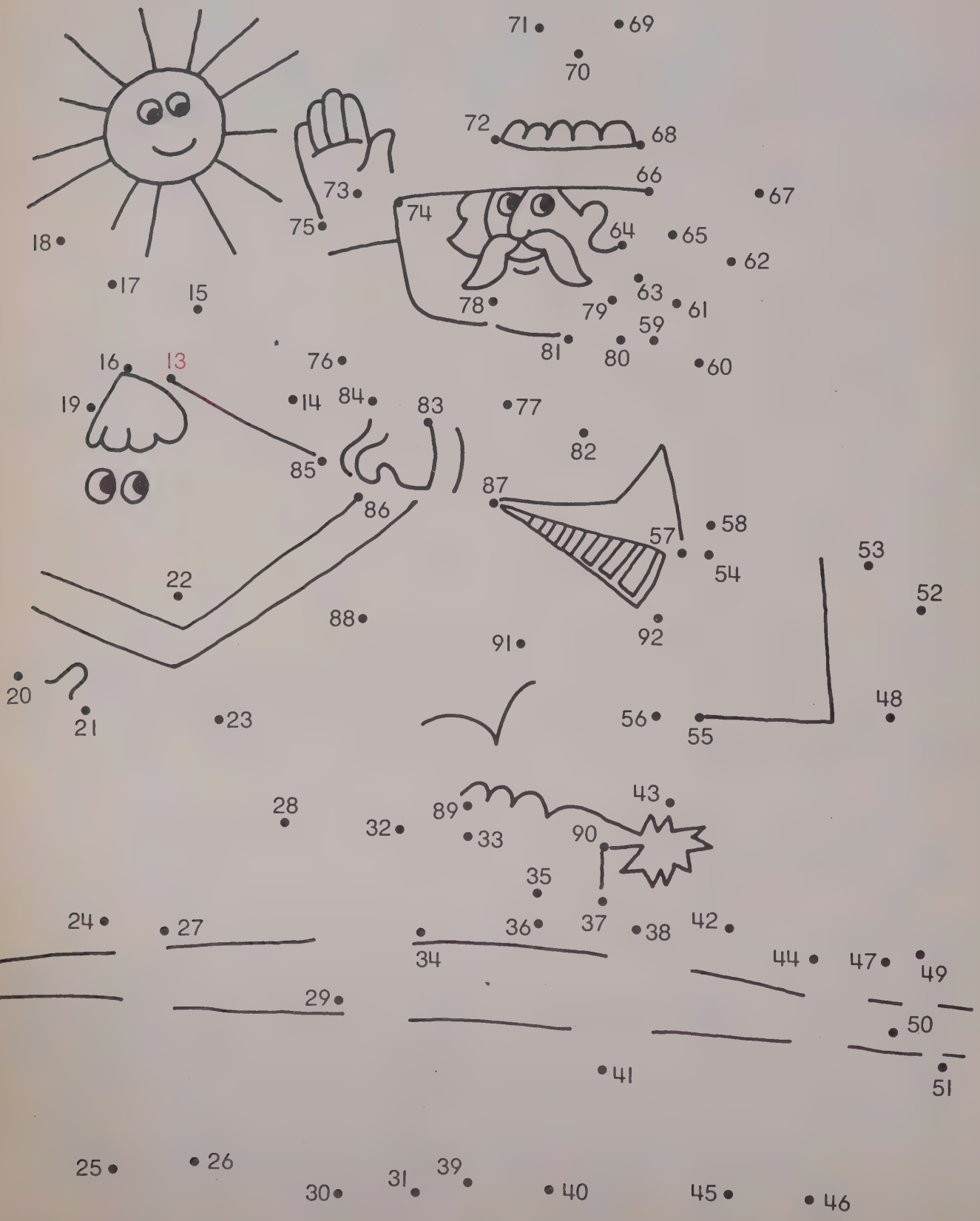
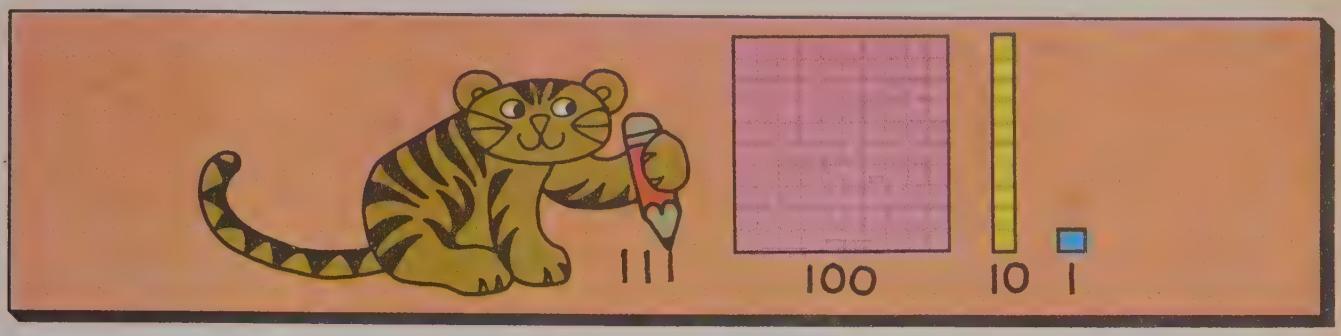
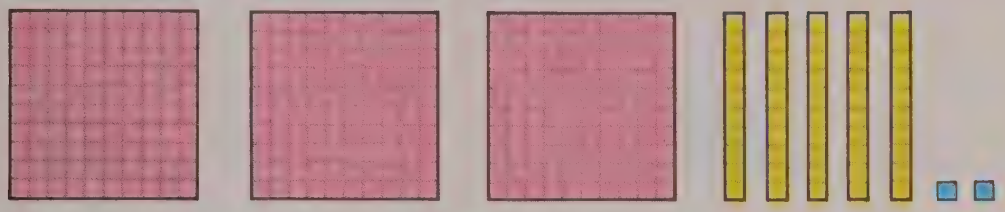
Connect the dots. Start at 13.



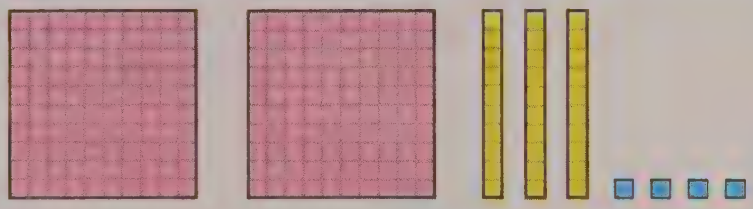


Fill the blanks.



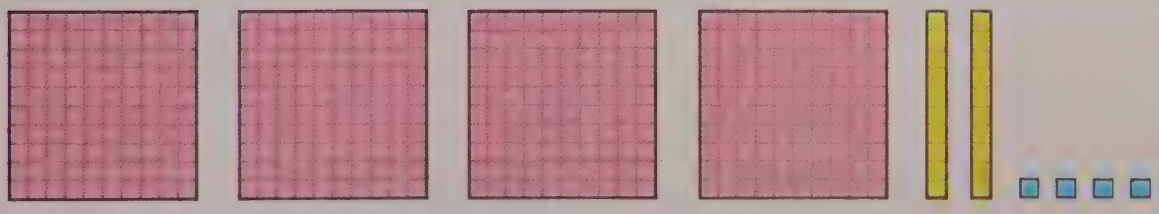
3 hundreds, 5 tens, and 2

We write 352.



____ hundreds, ____ tens, and ____

We write ____.



____ hundreds, ____ tens, and ____

We write ____.

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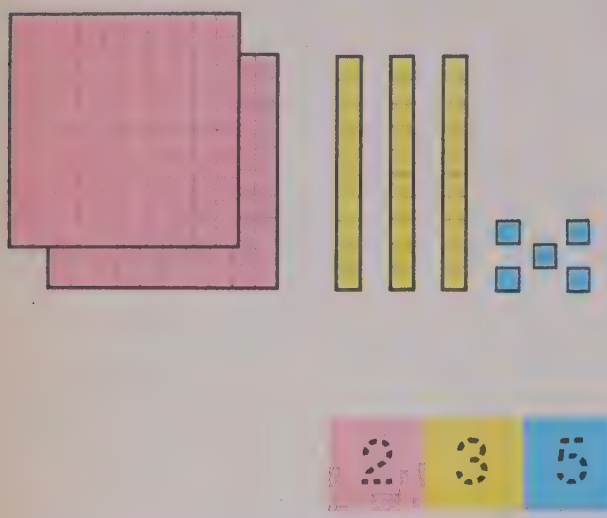
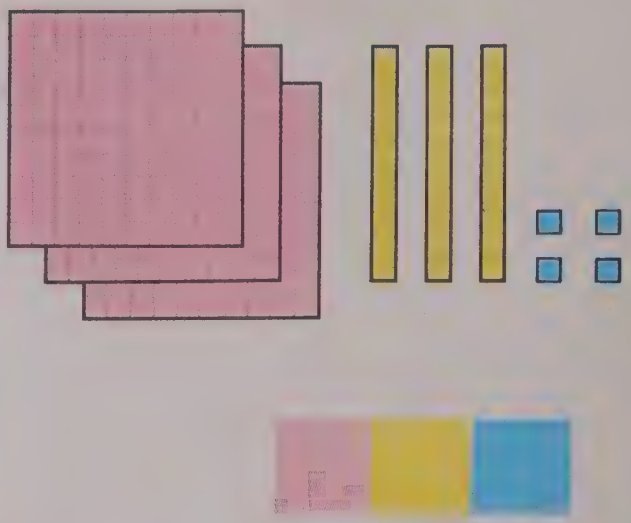
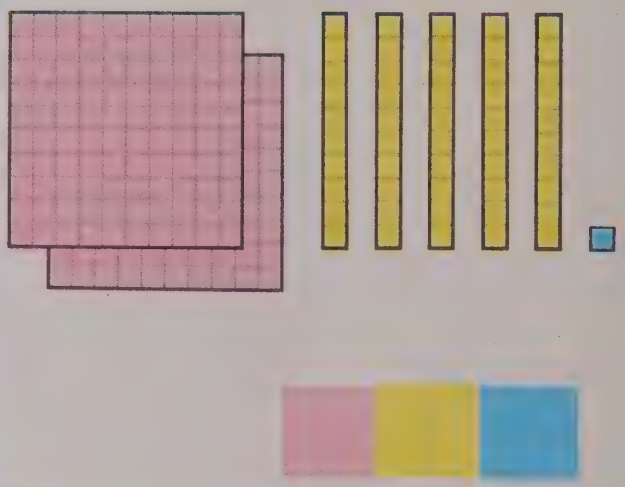
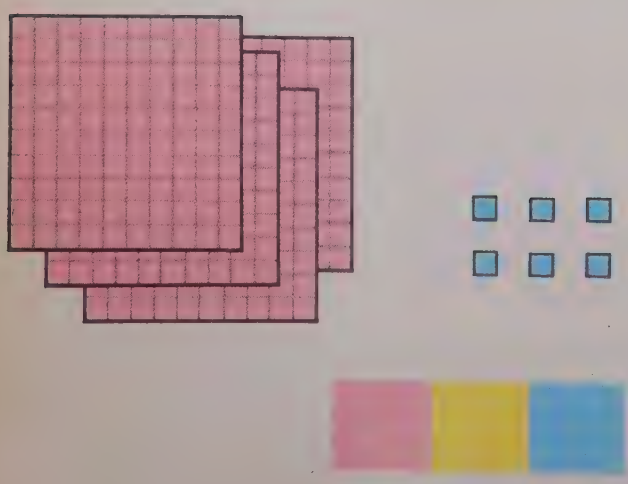
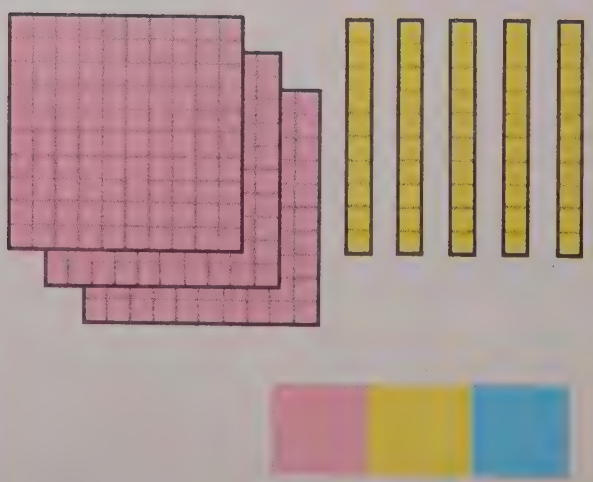
Tell how many.

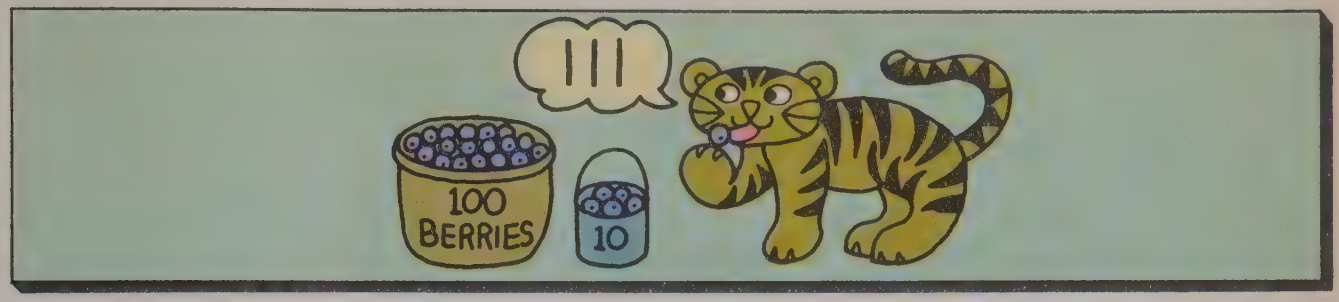


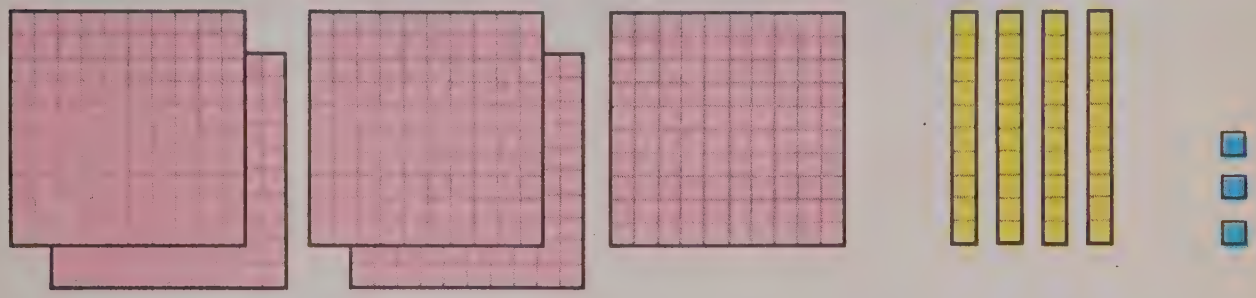












For 5 hundreds, 4 tens, and 3,

we write 543.

Fill the blanks.

For 3 hundreds, 7 tens, and 6, we write 376.

For 6 hundreds, 3 tens, and 5, we write ____ .

For 4 hundreds, 9 tens, and 0, we write ____ .

For 8 hundreds, 0 tens, and 2, we write ____ .

483 means 4 hundreds, 8 tens, and 3 .

280 means ____ hundreds, ____ tens, and ____ .

306 means ____ hundreds, ____ tens, and ____ .

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Fill the blanks.

____ hundreds, ____ tens, and ____.

We write ____.

---

971 means ____ hundreds, ____ tens, and ____.

503 means ____ hundreds, ____ tens, and ____.

826 means ____ hundreds, ____ tens, and ____.

347 means ____ hundreds, ____ tens, and ____.

719 means ____ hundreds, ____ tens, and ____.

Ring the correct word.

681

The 8 means 8

hundreds (tens) ones

309

The 3 means 3

hundreds tens ones

495

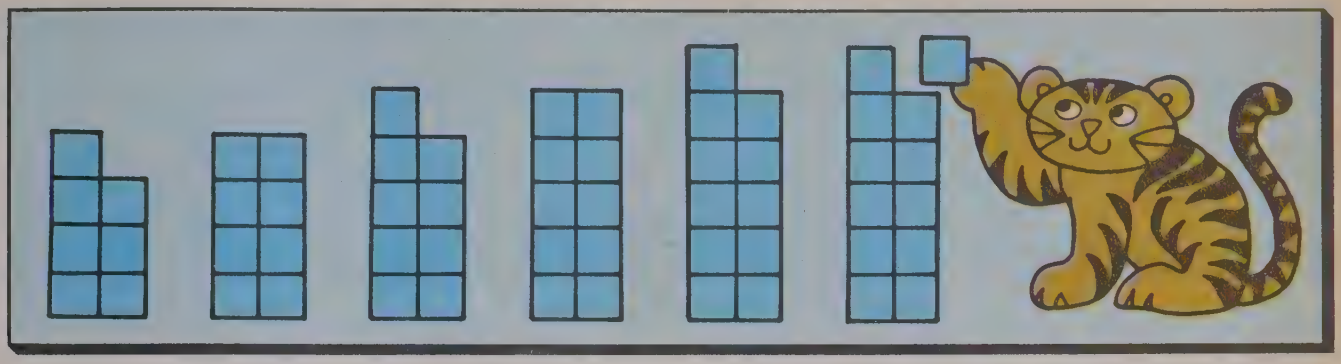
The 4 means 4

hundreds tens ones

827

The 7 means 7

hundreds tens ones



Complete the counting.

7	8	9			12	
17	18			21		
47	48	49				
147	148				152	
347	348	349				

97	98			101		
197	198				202	
397	398					
497	498					
597	598	599				

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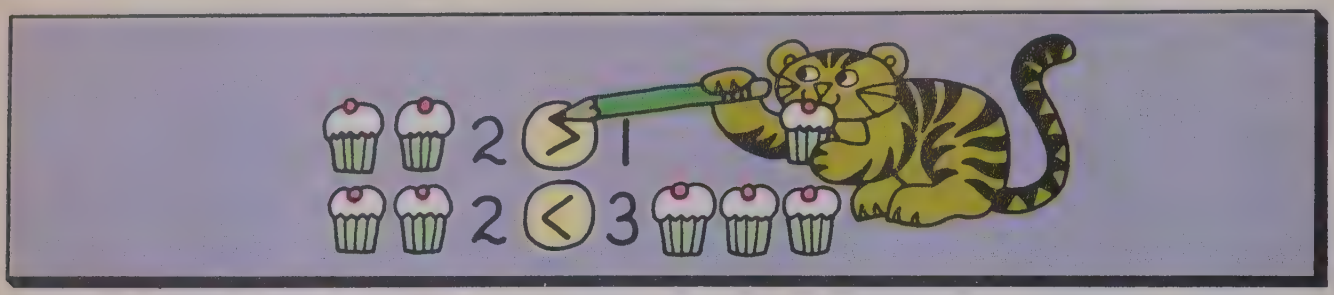
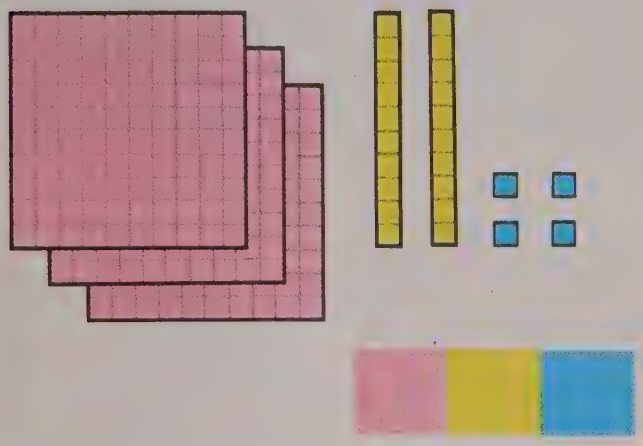


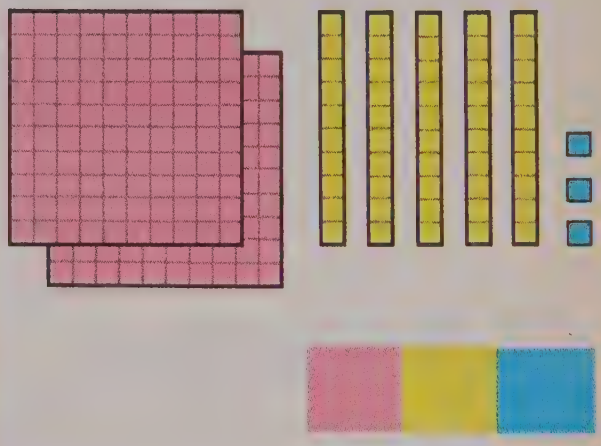
Put > or < in each ○ .

7 > 4	3 < 6
70 > 40	30 ○ 60
700 ○ 400	300 ○ 600
5 ○ 8	7 ○ 2
45 ○ 48	67 ○ 62
245 ○ 248	567 ○ 562
9 ○ 4	1 ○ 8
92 ○ 42	15 ○ 85
392 ○ 342	715 ○ 785
5 ○ 6	9 ○ 8
52 ○ 62	96 ○ 86
523 ○ 623	963 ○ 863

Show you know

How many?





Complete the counting.

91	92	93	94			
25	26	27	28			
125	126	127	128			
425	426	427	428			

Put > or < in each ◯.

6 ◯ 4

60 ◯ 40

600 ◯ 400

523 ◯ 563

249 ◯ 246

352 ◯ 452

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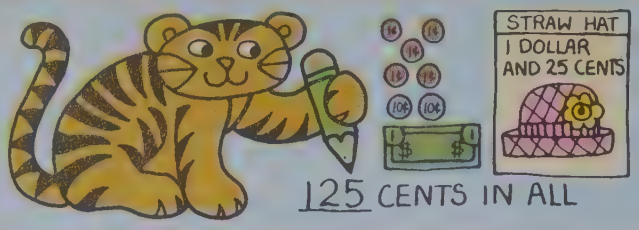
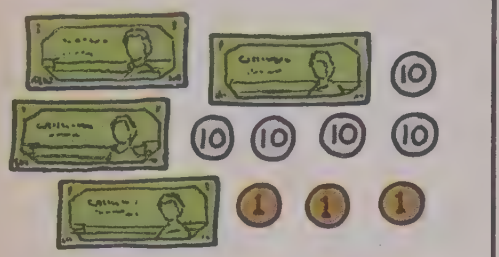
Let's have fun

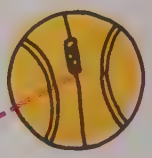


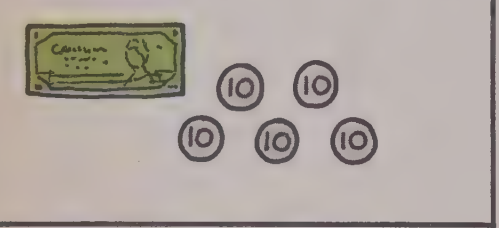
Match the money with the picture.
Then write the number of cents in the blank.



Basketball
4 dollars and 75 cents.

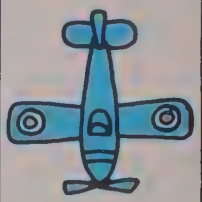
475 cents in all.

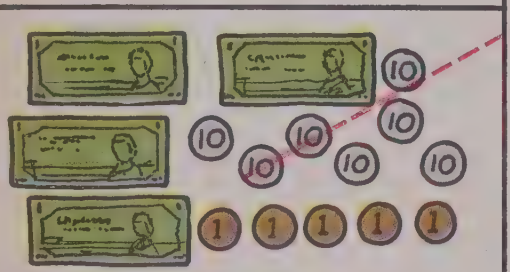




Toy airplane
1 dollar and 49 cents.

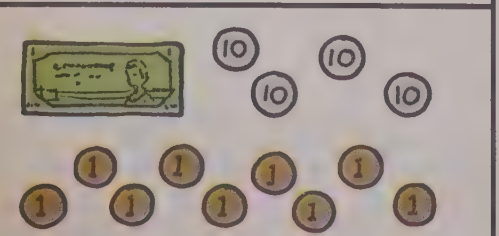
____ cents in all.





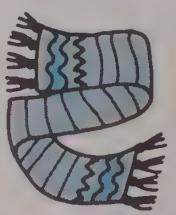
Doll
4 dollars and 53 cents.

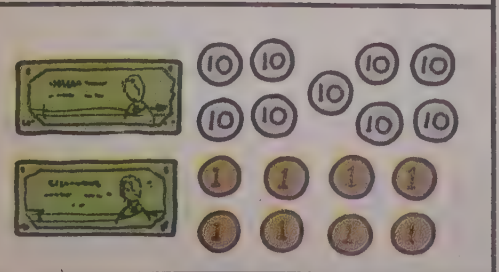
____ cents in all.



Scarf
2 dollars and 98 cents.

____ cents in all.



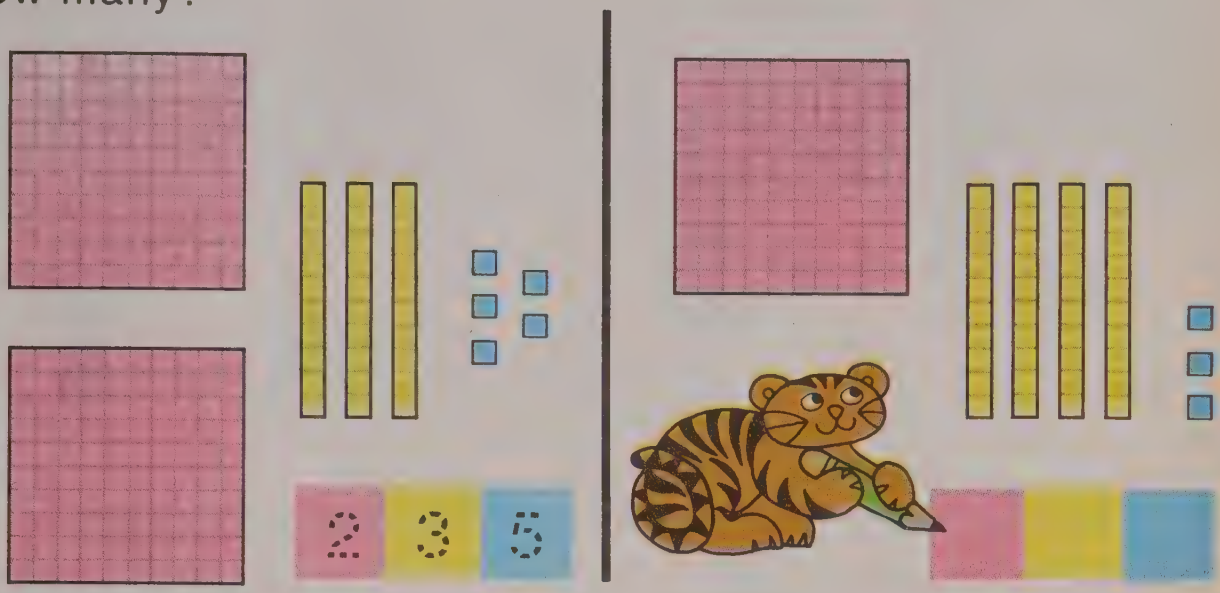


Mittens
1 dollar and 50 cents.

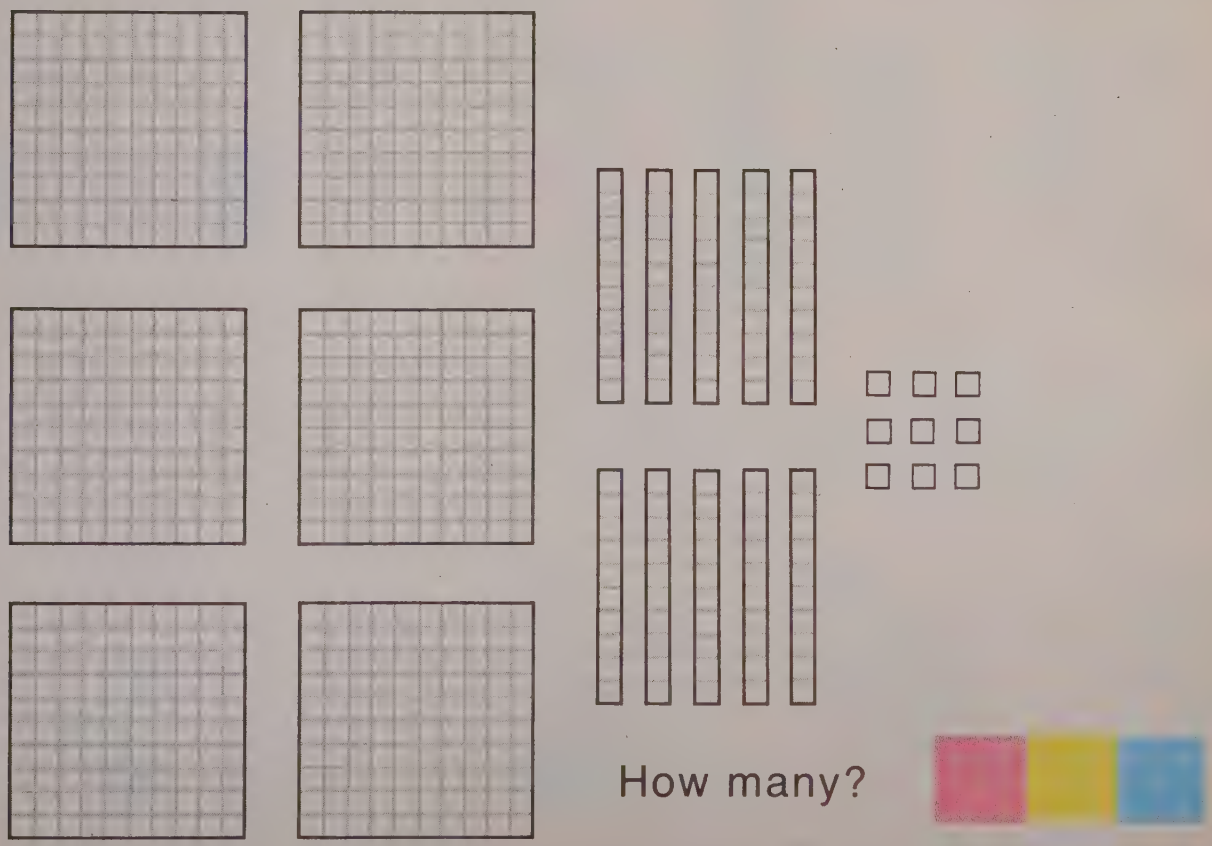
____ cents in all.

Let's do

How many?



Can you color enough of these figures to show the two sets together?



How many?

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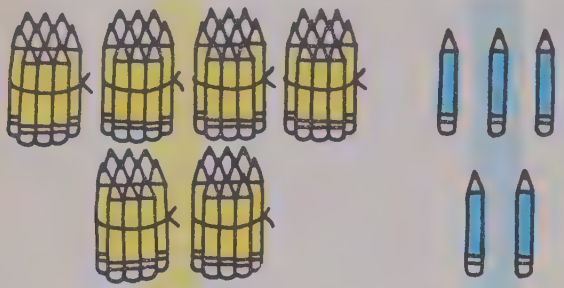
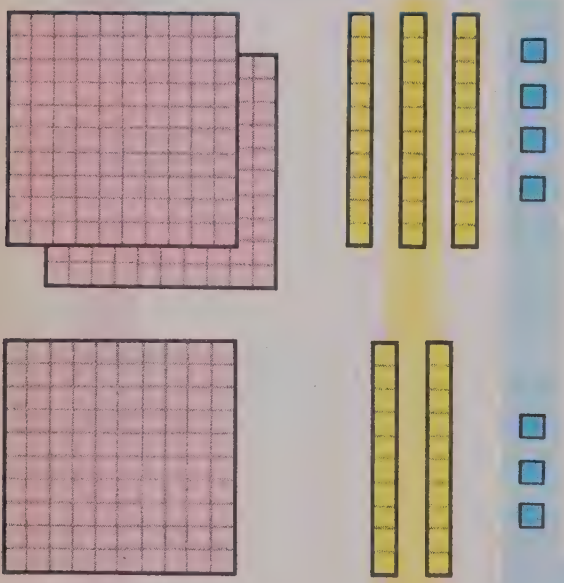
Let's talk

Fill in the blanks. Then find the sums.



$$\begin{array}{r} 40 \\ +\,20 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ +\,2 \\ \hline \end{array} \qquad \begin{array}{r} 43 \\ +\,22 \\ \hline \end{array}$$



____ tens and ____

$$\begin{array}{r} 200 \\ +\,100 \\ \hline \end{array} \qquad \begin{array}{r} 30 \\ +\,20 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ +\,3 \\ \hline \end{array} \qquad \begin{array}{r} 234 \\ +\,123 \\ \hline \end{array}$$

____ hundreds, ____ tens, and ____

Can you find these differences?

$$\begin{array}{r} 500 \\ -\,200 \\ \hline \end{array} \qquad \begin{array}{r} 60 \\ -\,30 \\ \hline \end{array} \qquad \begin{array}{r} 7 \\ -\,5 \\ \hline \end{array} \qquad \begin{array}{r} 567 \\ -\,235 \\ \hline \end{array}$$

$$\begin{array}{r} 200 \\ +100 \\ \hline 300 \end{array} \qquad \begin{array}{r} 30 \\ +40 \\ \hline 70 \end{array} \qquad \begin{array}{r} 6 \\ +2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 236 \\ +142 \\ \hline \end{array}$$

Find the sums.

$$\begin{array}{r} 300 \\ +200 \\ \hline \end{array} \qquad \begin{array}{r} 50 \\ +30 \\ \hline \end{array} \qquad \begin{array}{r} 4 \\ +5 \\ \hline \end{array} \qquad \begin{array}{r} 354 \\ +235 \\ \hline \end{array}$$

$$\begin{array}{r} 500 \\ +100 \\ \hline \end{array} \qquad \begin{array}{r} 60 \\ +20 \\ \hline \end{array} \qquad \begin{array}{r} 3 \\ +4 \\ \hline \end{array} \qquad \begin{array}{r} 563 \\ +124 \\ \hline \end{array}$$

$$\begin{array}{r} 100 \\ +400 \\ \hline \end{array} \qquad \begin{array}{r} 60 \\ +30 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ +0 \\ \hline \end{array} \qquad \begin{array}{r} 168 \\ +430 \\ \hline \end{array}$$

$$\begin{array}{r} 826 \\ +142 \\ \hline \end{array} \qquad \begin{array}{r} 214 \\ +571 \\ \hline \end{array} \qquad \begin{array}{r} 105 \\ +492 \\ \hline \end{array} \qquad \begin{array}{r} 382 \\ +403 \\ \hline \end{array} \qquad \begin{array}{r} 71 \\ +325 \\ \hline \end{array}$$

$$\begin{array}{r} 402 \\ +296 \\ \hline \end{array} \qquad \begin{array}{r} 134 \\ +\ 63 \\ \hline \end{array} \qquad \begin{array}{r} 763 \\ +215 \\ \hline \end{array} \qquad \begin{array}{r} 403 \\ +194 \\ \hline \end{array} \qquad \begin{array}{r} 461 \\ +238 \\ \hline \end{array}$$

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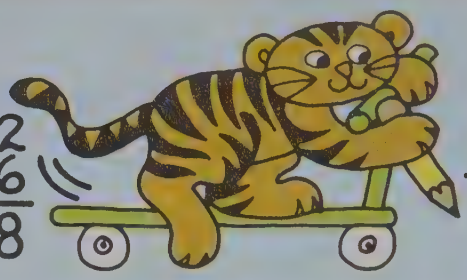
Find the differences.

500 − 200	60 − 10	9 − 3	569 − 213
800 − 300	40 − 30	8 − 2	848 − 332
600 − 500	90 − 20	7 − 5	697 − 525

936 − 213	854 − 422	746 − 615	495 − 321	894 − 680
853 − 702	469 − 214	936 − 332	757 − 34	356 − 341
589 − 587	675 − 222	647 − 30	493 − 272	865 − 315

423	854	742			789
+156	−532	+116			−650
579	322	858			

Find the sums and differences.

123	473	595	932	677	749
+ 714	+ 125	+ 300	− 121	− 342	− 625
340	296	351	856	297	348
+ 128	+ 402	+ 26	− 752	− 120	− 105
526	657	405	893	214	476
+ 143	− 134	+ 293	− 251	+ 574	− 420
523	740	164	356	306	865
− 413	− 340	+ 332	+ 402	+ 431	− 362
268	658	343	935	535	726
+ 430	− 244	+ 215	− 530	+ 254	− 405

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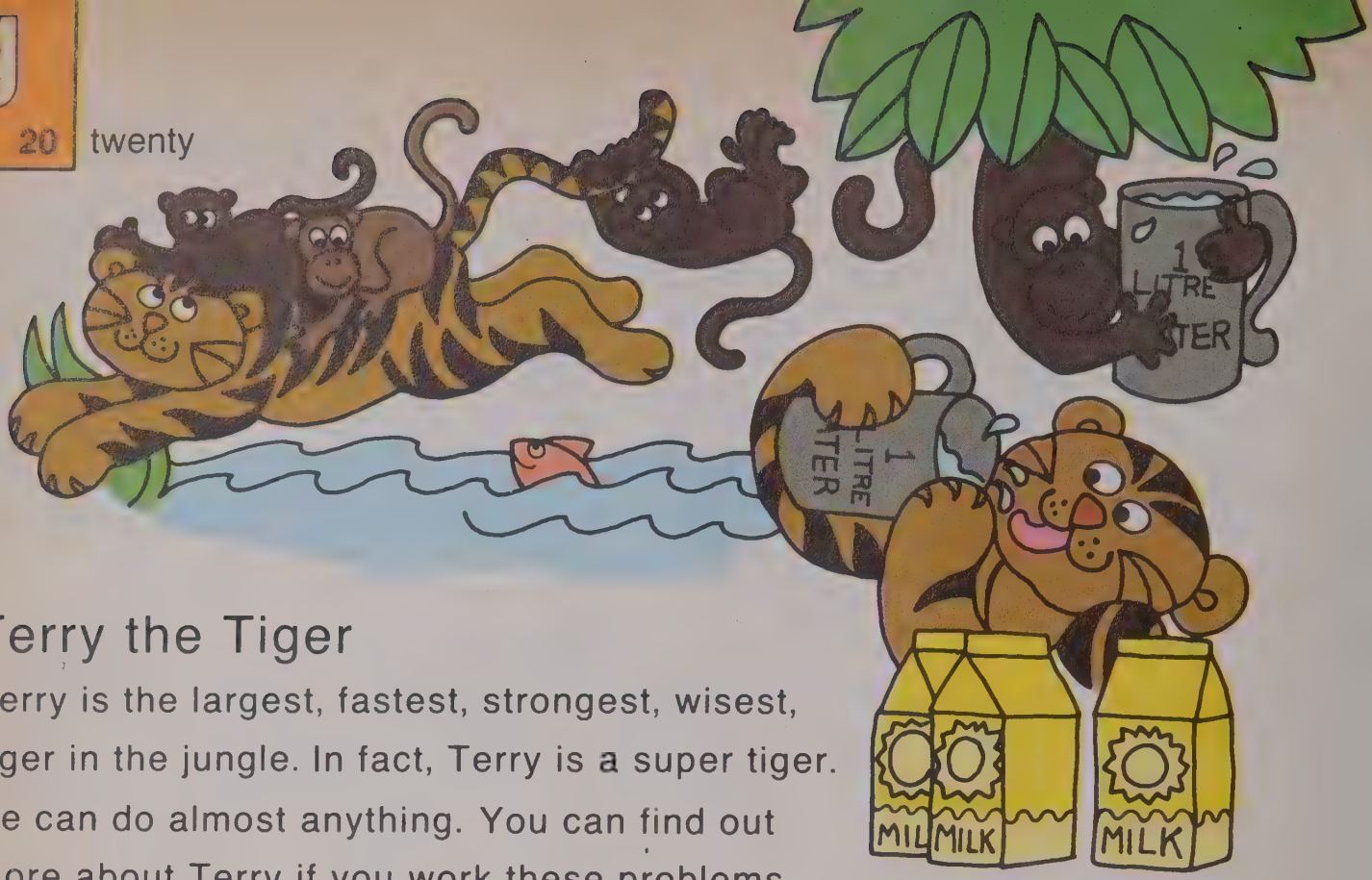

Terry the Tiger

Terry is the largest, fastest, strongest, wisest, tiger in the jungle. In fact, Terry is a super tiger. He can do almost anything. You can find out more about Terry if you work these problems.

1. Terry jumped across a river that was 645 metres wide. Then he jumped 214 metres. How far in all? _____

2. Terry drank 9 litres of milk and 8 litres of water. How much did he drink? _____

3. Terry once ran 134 kilometres, rested and ran 23 more. How far? _____

4. Terry weighs 216 kilograms. He ate a big meal and gained 23 kilograms. How much does he weigh now? _____

5. Terry is 299 years old. His friend is only 132. How much older is Terry? _____

6. Terry got tired. He slept for 36 hours. Then he turned over and slept 12 more hours. How long? _____

7. Terry watched 46 monkeys playing tag. 21 more monkeys came. How many in all? _____

Show you know

Solve.

232 + 514	215 + 580	203 + 724	736 − 122	584 − 231	396 − 105
413 + 354	466 + 232	365 + 24	237 − 33	764 − 524	835 − 610
623 + 146	786 − 123	563 − 113	518 + 230	234 + 104	925 − 403
842 − 641	452 + 300	656 − 305	129 + 620	615 + 43	749 − 622

One frog jumped 69 centimetres The second frog jumped 42 centimetres How much farther did the first frog jump? _____

The green grasshopper jumped 235 centimetres. The brown one only jumped 212 centimetres. How much farther for the green one? _____

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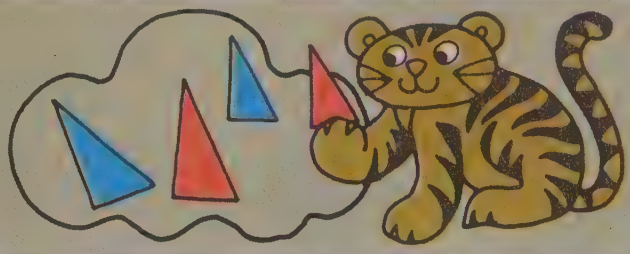
Let's have fun

Can you find which animals are inside the blue fence?

Maze

Let's do



Can you put punchout figures that are "alike" inside this ring?

How are they alike?	Punchouts
ALL HAVE 3 CORNERS	
ALL CIRCLES	
ALL BLUE SQUARES	
ALL LARGE AND RED	
ALL SMALL CIRCLES	

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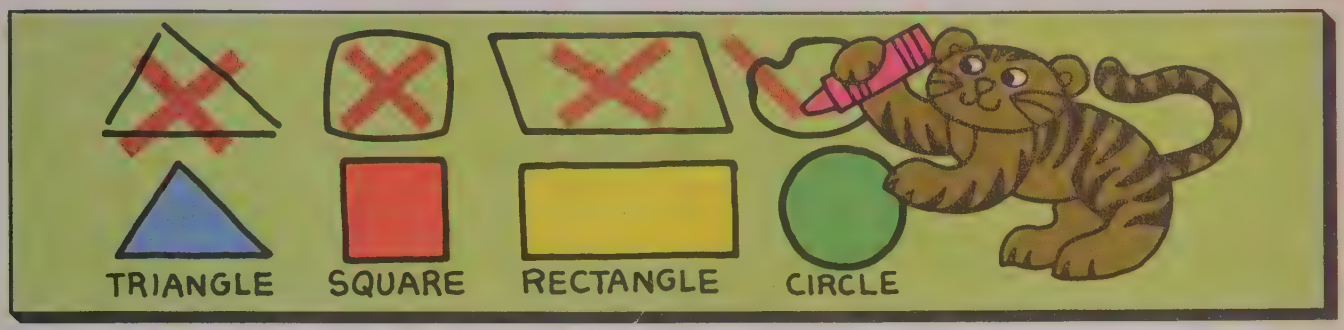
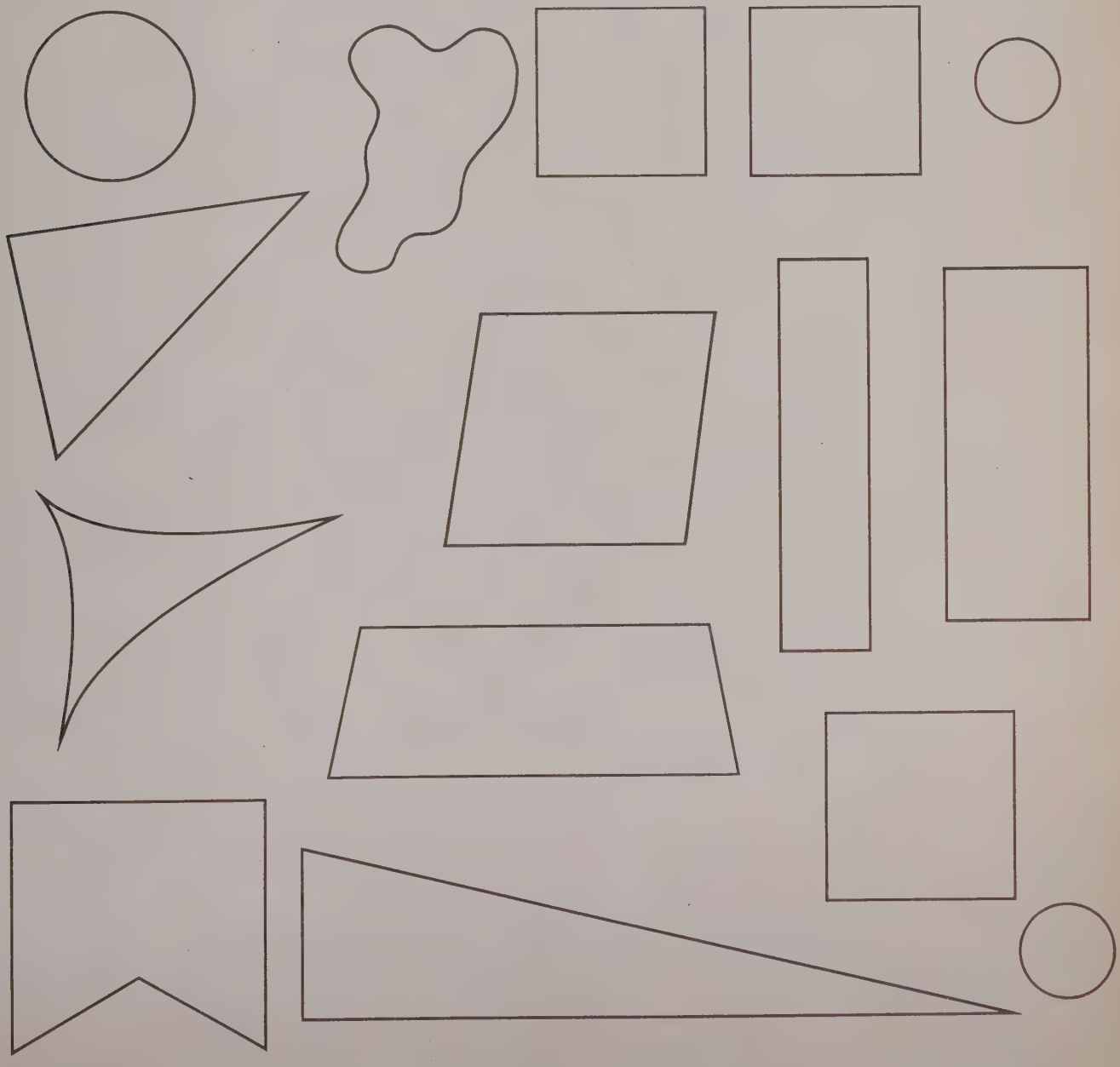
Let's talk



Mark an X on each figure that is not one of the figures named above.
Color each triangle, square, rectangle, and circle the same color as shown above.



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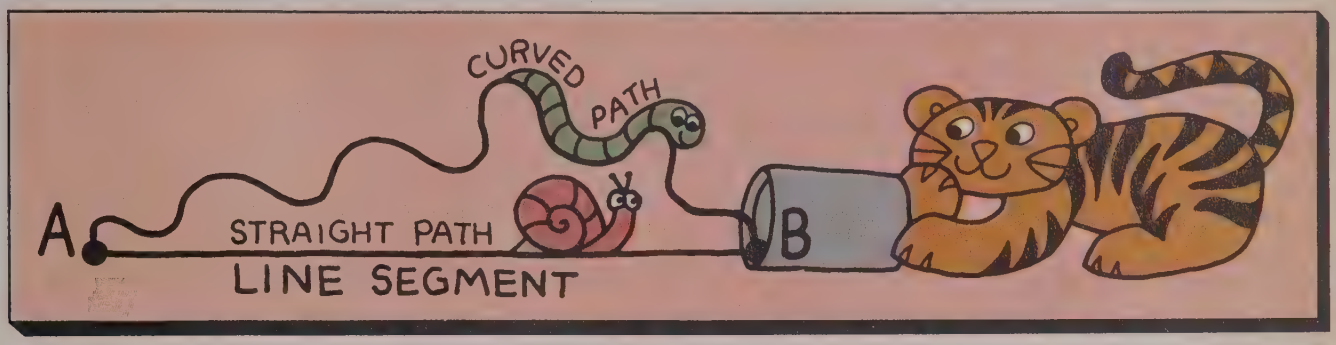
Use the green dots to draw a triangle.
Use the blue dots to draw a square.
Use the red dots to draw a rectangle.
Draw some more triangles,
rectangles, and squares.



Draw straight and curved paths from A to B.

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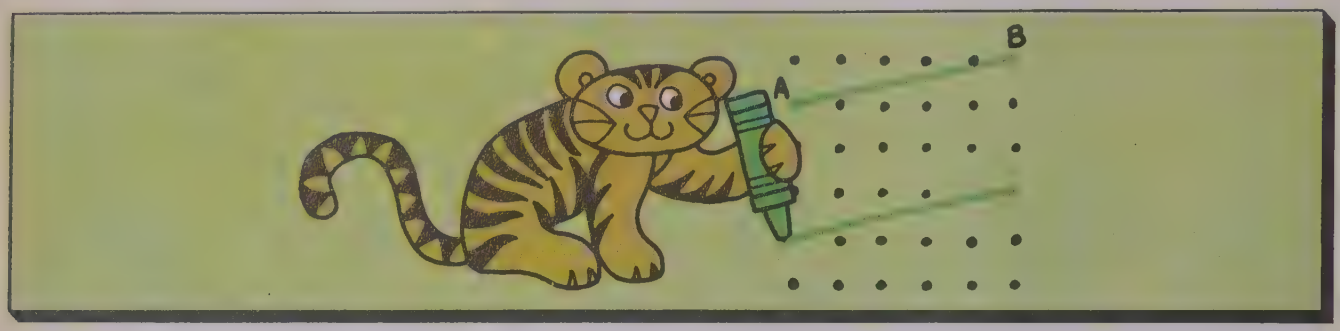
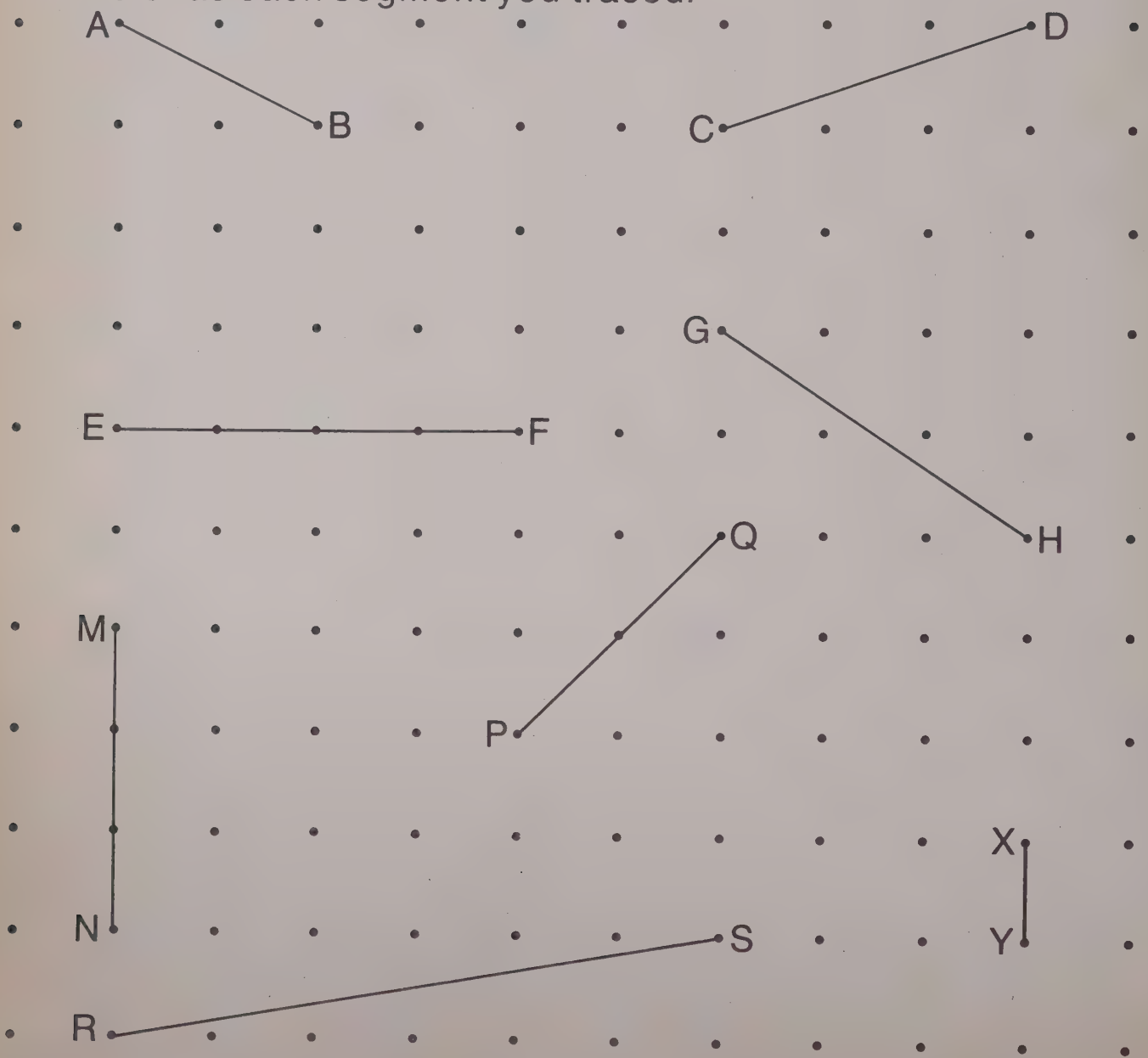
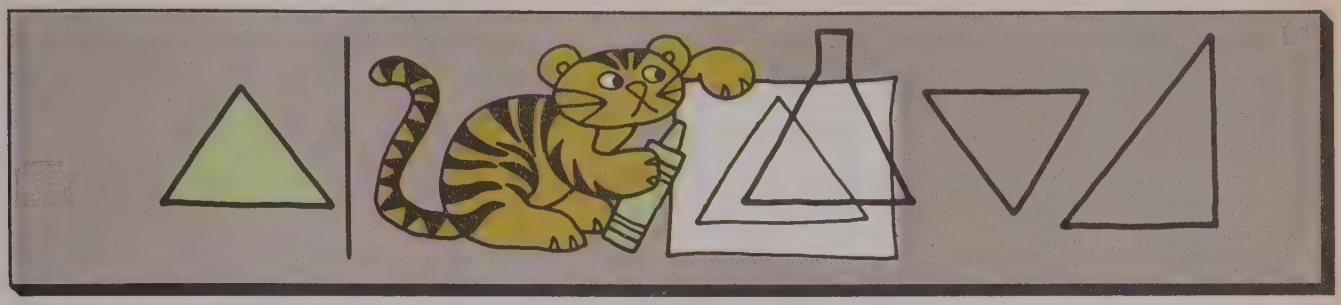


Trace over each of the line segments with a different color crayon.
Make another line segment the same size and color as each segment you traced.





Color the figure that is the same size and shape as the first figure.

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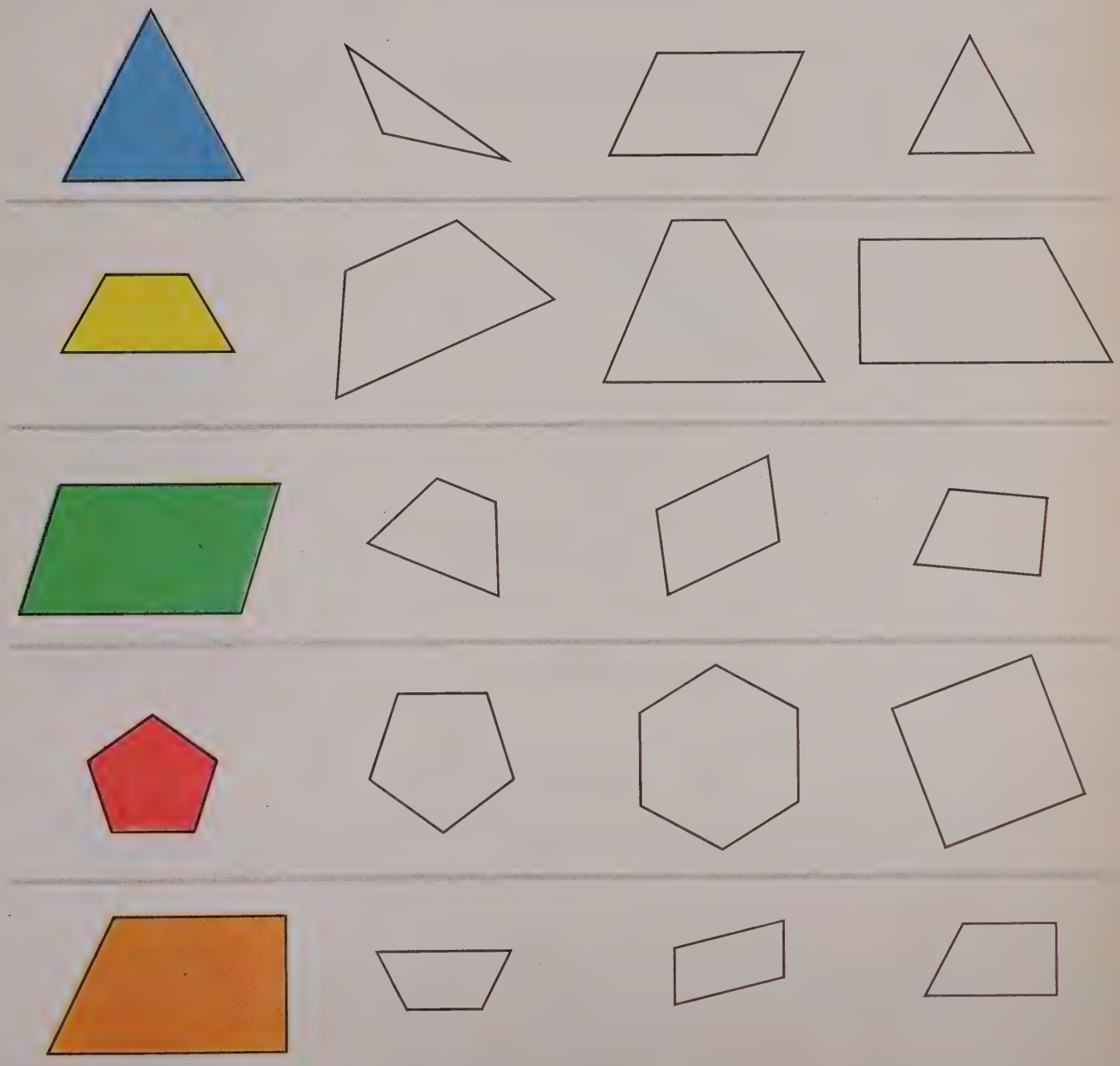
Color the inside of the figures so figures that have the same size and shape have the same color.

Color the figure that is the same shape, but not the same size as the first figure.



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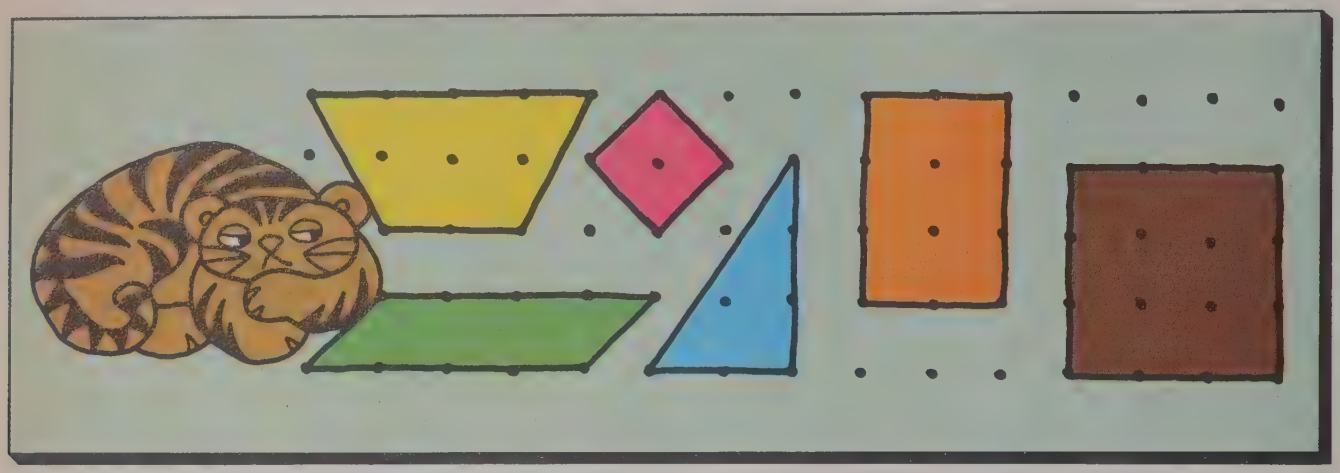
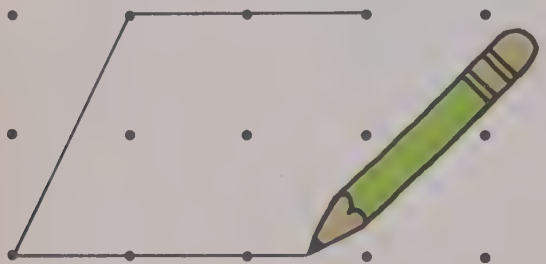


Draw figures that are the same shape as the ones above, but larger. Color figures that are the same shape the same color.



Show you know

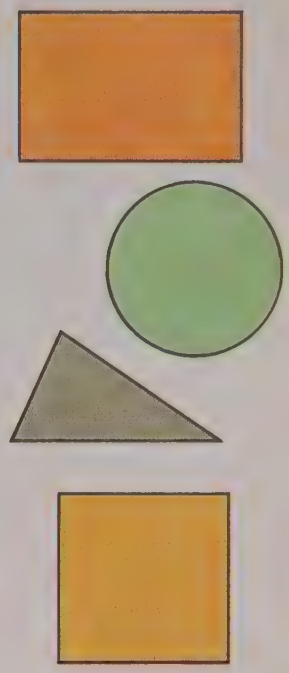
"Tie" the tag to the correct figure.

Circle

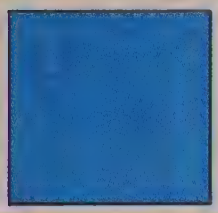
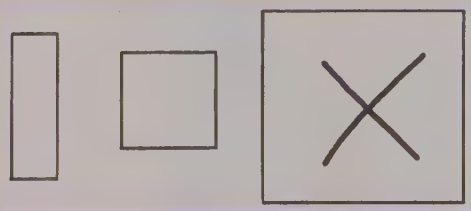
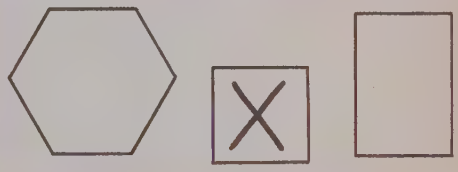
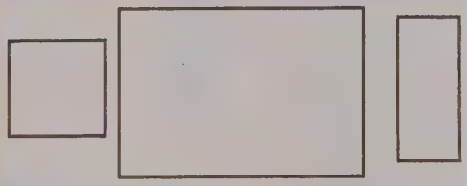
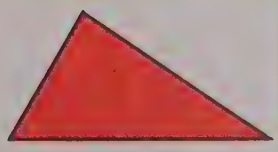
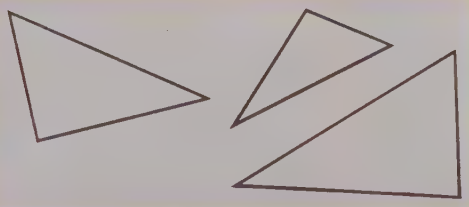
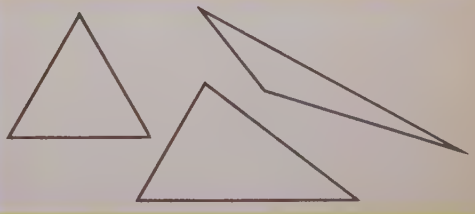
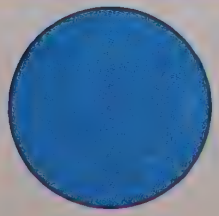
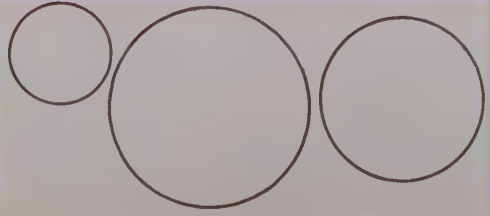
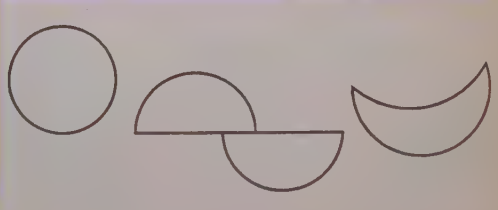
Triangle

Rectangle

Square



Check the figure that is the same size and same shape as the punchout.

Punchout	Same size	Same shape
		
		
		
		

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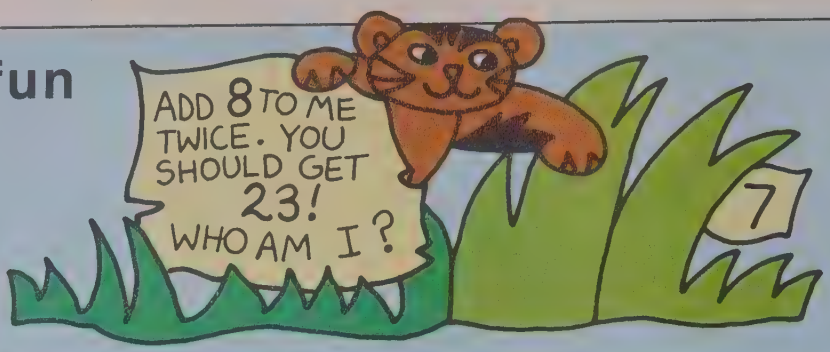
Let's have fun



Can you find the mystery number?

1. If you add 7 to me, you'll get 15.
Who am I?

2. Add 5 to me. Then take away 2. You'll have 6.
Who am I?

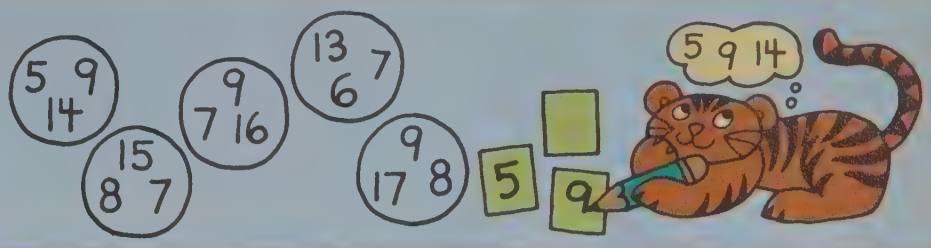
3. Add 4 to me. Then add 6 more. You should get 12.
Who am I?

4. First take away 7. Then add 11. You'll get 20.
Who am I?

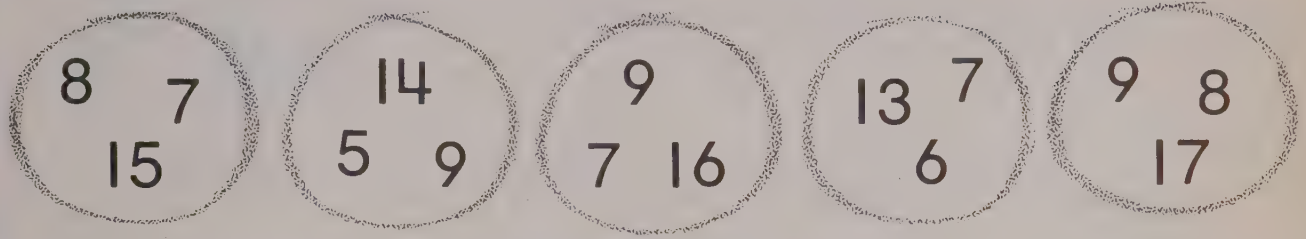
5. Add me to myself. Then take away 5. You should get 7.
Who am I?

6. Add me to myself. Then add me on again. You better get 18.
Who am I?

Let's do

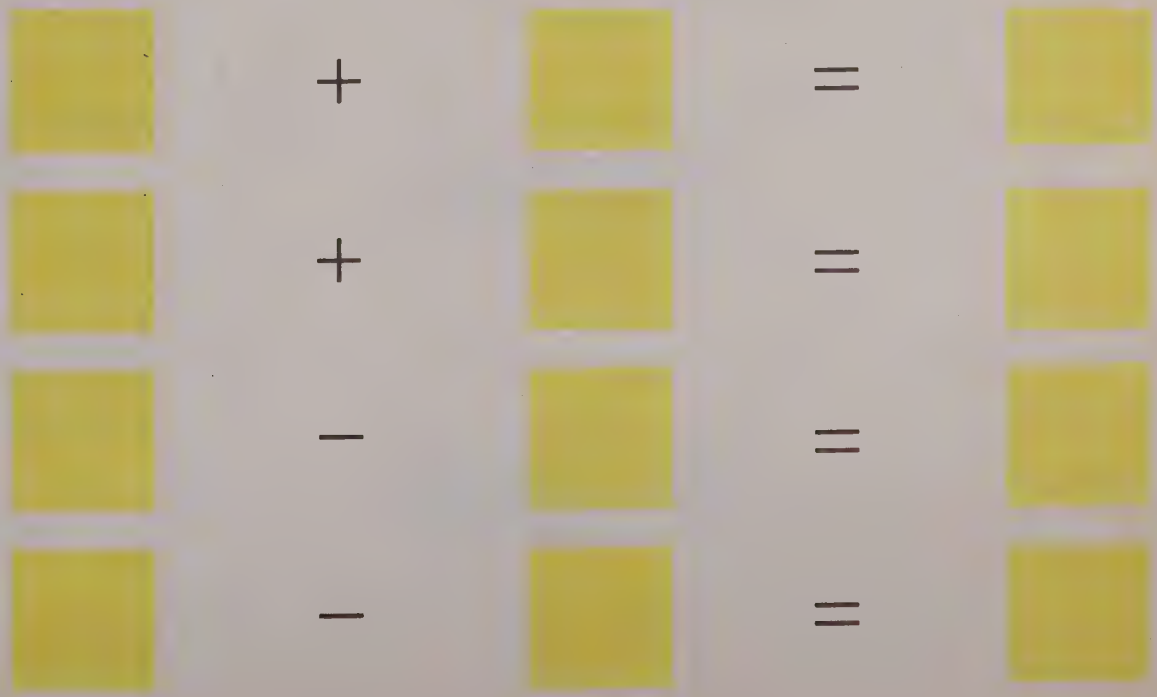


Memorize one of these sets of numbers.



Put your numbers on papers this size.

Can you place your papers on the yellow spaces below to make equations? Record the equations you find.



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Let's talk

Can you solve Sue's equations?

$15 - 7 = \square$

$15 - 8 = \square$

Can you find each of these differences?

$9 + 7 = 16$

$16 - 9 = \square$ $16 - 7 = \square$

$4 + 8 = 12$

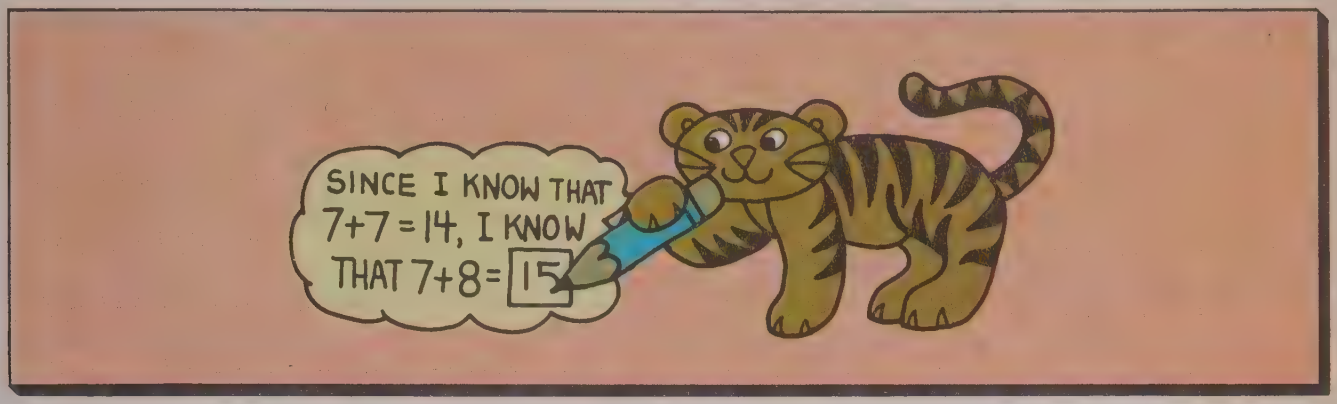
$12 - 4 = \square$ $12 - 8 = \square$

$8 + 6 = 14$

$14 - 8 = \square$ $14 - 6 = \square$

$4 + 9 = 13$

$13 - 4 = \square$ $13 - 9 = \square$



Solve the equations.

Since $5 + 5 = 10$, I know $5 + 6 =$ ☐.

Since $7 + 7 = 14$, I know $7 + 6 =$ ☐.

Since $8 + 8 = 16$, I know $8 + 9 =$ ☐.

Since $6 + 6 = 12$, I know $6 + 7 =$ ☐.

Since $5 + 5 = 10$, I know $5 + 6 =$ ☐.

Since $9 + 9 = 18$, I know $9 + 8 =$ ☐.

Since $8 + 8 = 16$, I know $8 + 7 =$ ☐.

Since $6 + 6 = 12$, I know $6 + 8 =$ ☐.

Since $5 + 5 = 10$, I know $5 + 7 =$ ☐.

Since $7 + 7 = 14$, I know $7 + 9 =$ ☐.

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Solve the equations.

$7 + 5 =$ ☐

$7 + 7 =$ ☐

$6 + 4 =$ ☐

$6 + 7 =$ ☐

$9 + 6 =$ ☐

$5 + 6 =$ ☐

$6 + 8 =$ ☐

$8 + 5 =$ ☐

$4 + 8 =$ ☐

$9 + 5 =$ ☐

$3 + 8 =$ ☐

$8 + 8 =$ ☐

$4 + 9 =$ ☐

$7 + 4 =$ ☐

$9 + 3 =$ ☐

$7 + 8 =$ ☐

Complete the tables.

Add 5	
6	⋮⋮
4	
7	
9	

Add 3	
9	
7	
8	
6	

Add 6	
7	
8	
6	
9	

Find these sums.

$8 + 4 = \square$

$3 + 8 = \square$

$7 + 8 = \square$

$9 + 2 = \square$

$8 + 5 = \square$

$9 + 3 = \square$

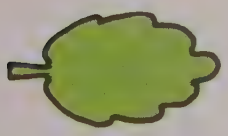
$8 + 6 = \square$

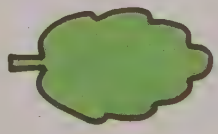
$7 + 4 = \square$

$6 + 7 = \square$

$9 + 7 = \square$

Now find the "hidden" addend.





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Find the sums.

$4 + 8 = \square$

$7 + 6 = \square$

$6 + 5 = \square$

$8 + 8 = \square$

$5 + 9 = \square$

$8 + 9 = \square$

$8 + 5 = \square$

$6 + 8 = \square$

$3 + 8 = \square$

$1 + 9 = \square$

$9 + 3 = \square$

$8 + 7 = \square$

Solve the equations.

$\square + 5 = 13$

$\square + 7 = 15$

$\square + 8 = 11$

$\square + 8 = 14$

$\square + 9 = 10$

$\square + 8 = 12$

$\square + 3 = 12$

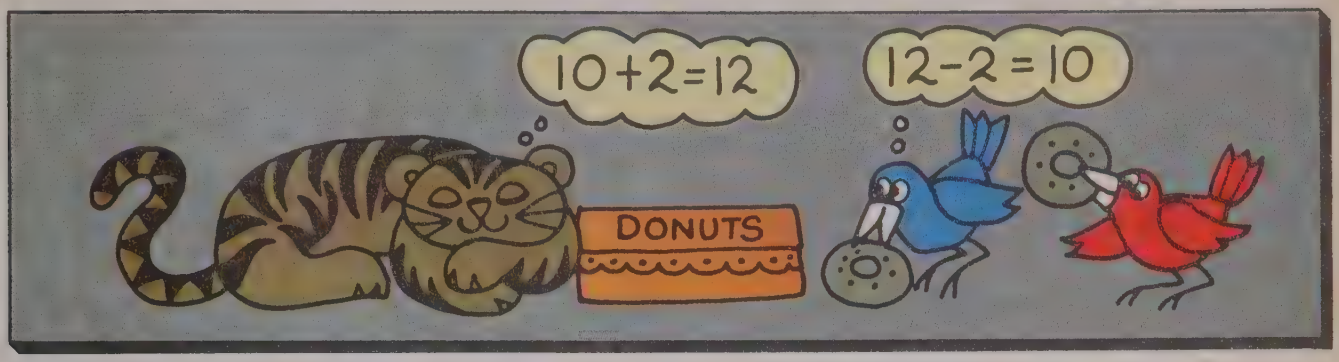
$\square + 9 = 14$

$\square + 9 = 17$

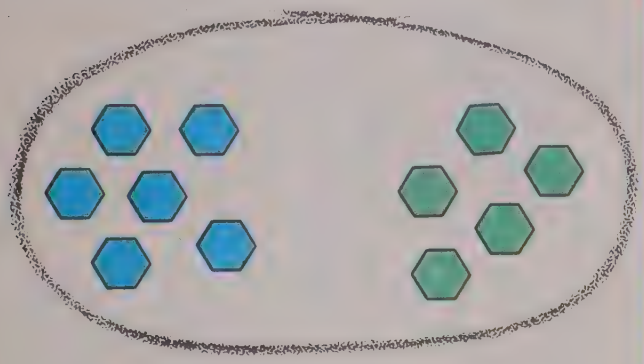
$\square + 5 = 11$

$\square + 6 = 13$

$\square + 8 = 16$



Solve the equations.



$6 + 5 = 11$

$11 - 5 = \square$

$7 + 6 = 13$

$13 - 6 = \square$

$8 + 7 = 15$

$15 - 7 = \square$

$6 + 8 = 14$

$14 - 8 = \square$

$9 + 3 = 12$

$12 - 3 = \square$

$8 + 8 = 16$

$16 - 8 = \square$

$8 + 9 = 17$

$17 - 9 = \square$

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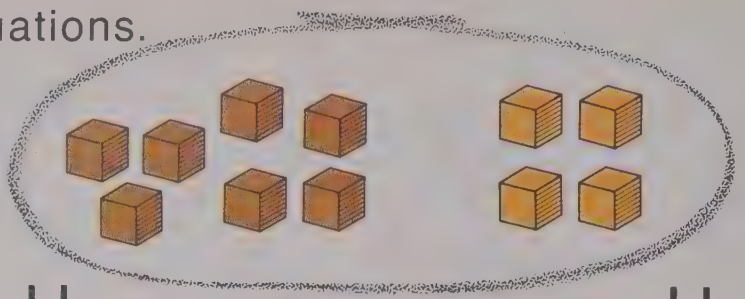
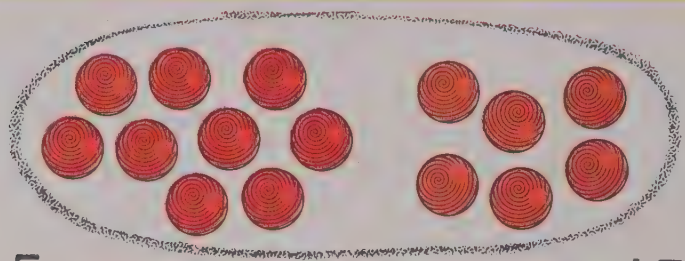
Solve the equations.

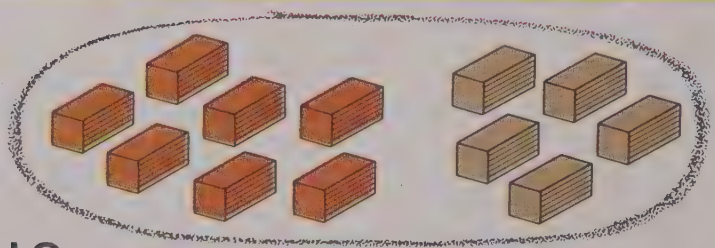


□ + 4 = 11 → 11 − 4 = □

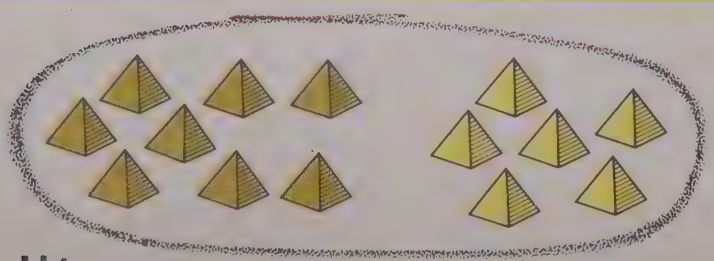
□ + 5 = 13 → 13 − 5 = □



□ + 6 = 15 → 15 − 6 = □

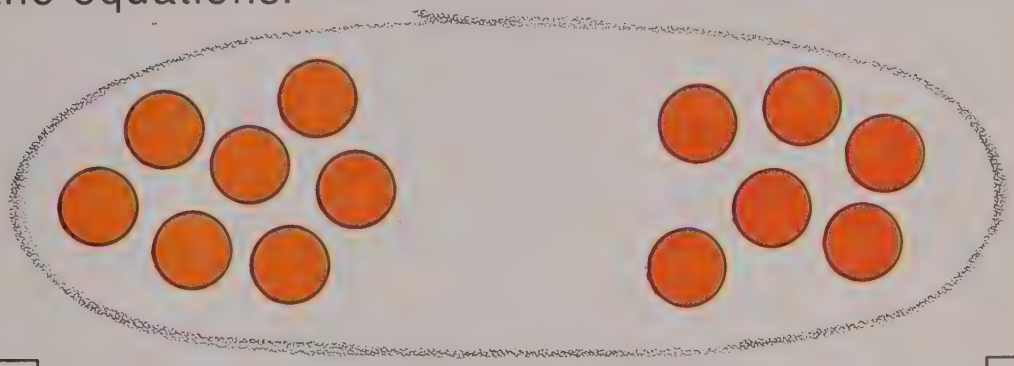


□ + 5 = 12 → 12 − 5 = □



□ + 6 = 14 → 14 − 6 = □

Solve the equations.



$\square + 6 = 13$	$13 - 6 = \square$
$\square + 6 = 12$	$\square + 4 = 10$
$12 - 6 = \square$	$10 - 4 = \square$
$\square + 4 = 11$	$\square + 5 = 12$
$11 - 4 = \square$	$12 - 5 = \square$
$\square + 7 = 14$	$\square + 6 = 15$
$14 - 7 = \square$	$15 - 6 = \square$

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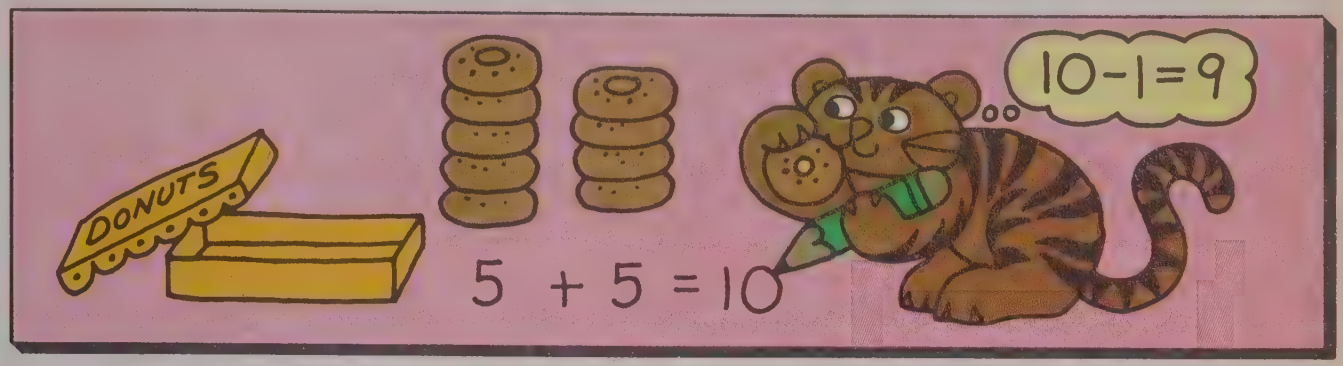
Solve the equations.

$\square + 6 = 14$ $14 - 6 = \square$	$\square + 6 = 11$ $11 - 6 = \square$
$\square + 9 = 18$ $18 - 9 = \square$	$\square + 3 = 12$ $12 - 3 = \square$
$\square + 7 = 15$ $15 - 7 = \square$	$\square + 8 = 16$ $16 - 8 = \square$
$\square + 5 = 13$ $13 - 5 = \square$	$\square + 8 = 17$ $17 - 8 = \square$
$\square + 8 = 12$ $12 - 8 = \square$	$\square + 7 = 14$ $14 - 7 = \square$



Find the sums and differences.

6 + 5	7 + 7	8 + 5	12 − 5	13 − 7	11 − 6
4 + 8	8 + 7	9 + 8	12 − 6	11 − 4	14 − 7

Complete each table.

Add 5	
6	
7	
8	

Subtract 5	
11	
12	
13	

Subtract 3	
10	
11	
12	

Write 4 different equations.

7 + 5 = ___

12 − 5 = ___

___ + ___ = ___

___ − ___ = ___

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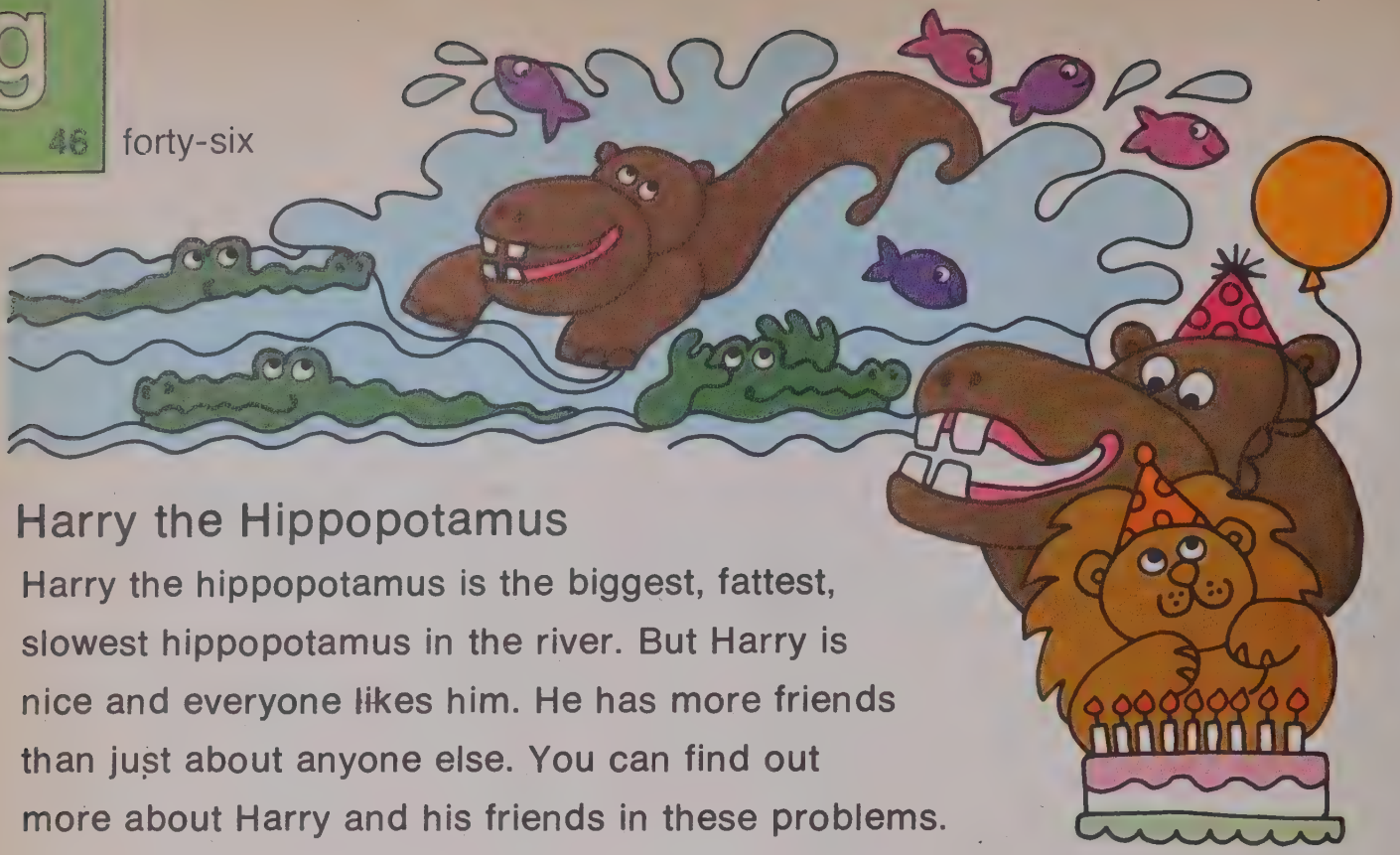

Harry the Hippopotamus

Harry the hippopotamus is the biggest, fattest, slowest hippopotamus in the river. But Harry is nice and everyone likes him. He has more friends than just about anyone else. You can find out more about Harry and his friends in these problems.

1. Harry weighs 6 tonnes. His best friend weighs only 5. How much do they weigh together? _____

2. One day Harry moved only 4 metres. The next day he moved 8 metres. How far both days? _____

3. Harry ate 6 trees for lunch and 7 for dinner. How many trees did he eat? _____

4. Harry has 15 crocodile friends. He has 8 monkey friends. How many more crocodiles? _____

5. When Harry falls into the river he splashes out enough water to fill 7 swimming pools. How much does he splash out in two falls? _____

6. Harry sunbathed for 7 hours. This made him so tired he slept for 8 hours. How long in all? _____

7. Harry is 13 years old. His favorite lion friend is 9. How much older is Harry? _____

Show you know

Solve.

$6 + 6 = \square$

$7 + 5 = \square$

$4 + 9 = \square$

$7 + 7 = \square$

$9 + 6 = \square$

$5 + 6 = \square$

$\square + 7 = 12$

$12 - 7 = \square$

$\square + 6 = 13$

$13 - 6 = \square$

$\square + 4 = 11$

$11 - 4 = \square$

$\square + 7 = 14$

$14 - 7 = \square$

5 + 8	8 + 3	5 + 9	12 − 4	13 − 4	11 − 7
9 + 6	7 + 5	8 + 8	14 − 6	12 − 9	15 − 6

Tom's dog had 13 fleas.
Ann's dog had 9.
How many more fleas did Tom's dog have. ____

Tom's dog scratched 8 times an hour.
Ann's scratched 6.
How many scratches? ____

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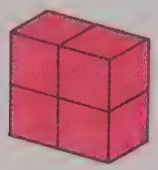
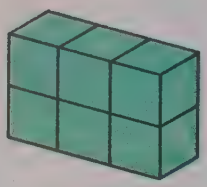
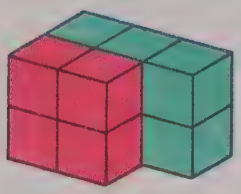
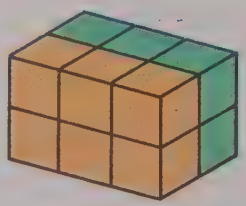
Let's have fun

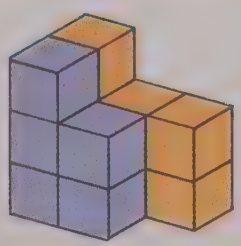
How many blocks?

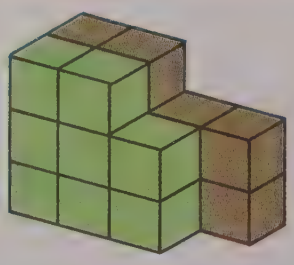


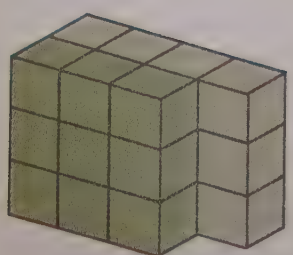


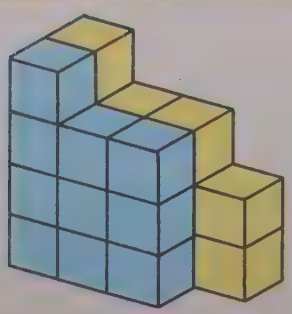




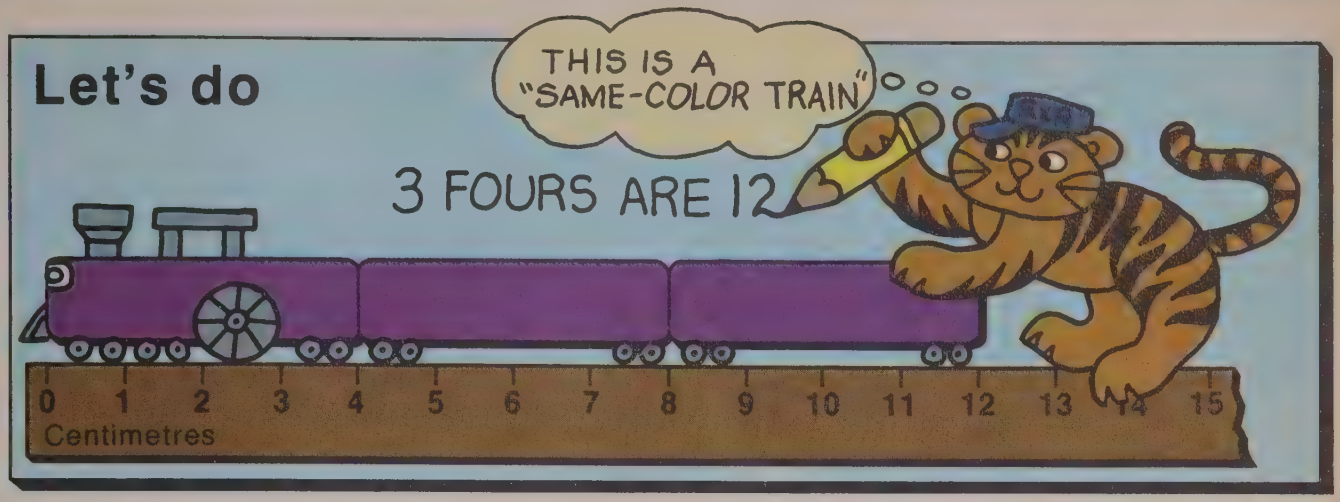




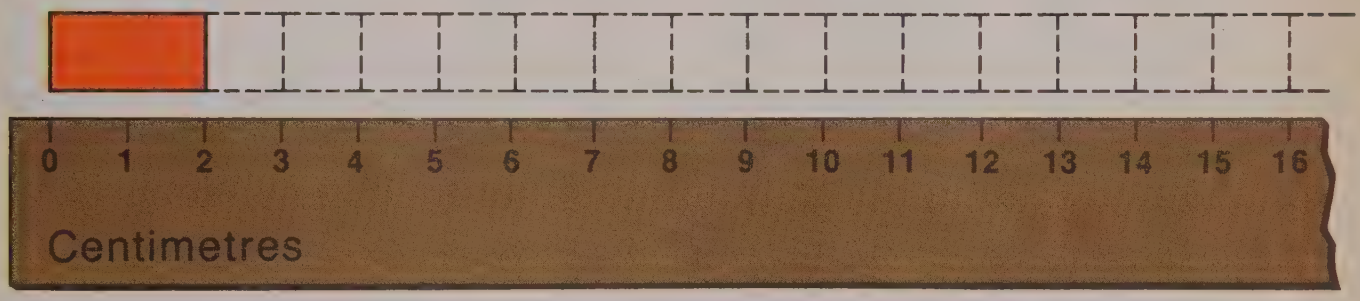




Let's do

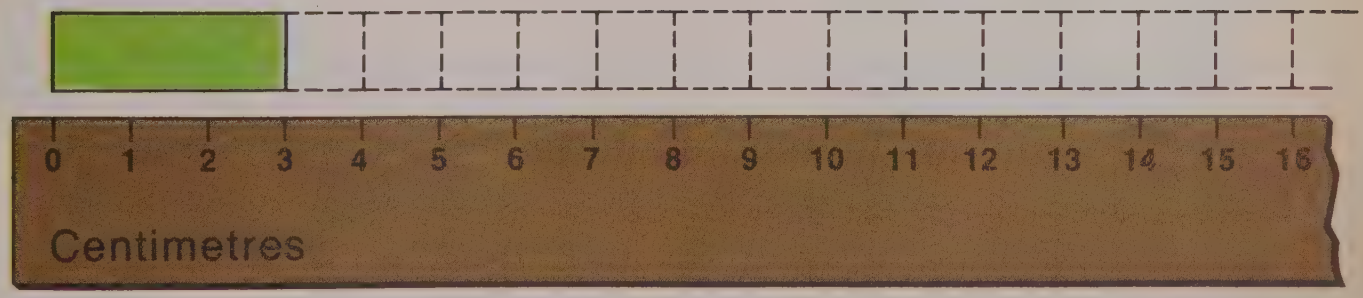


Can you make a red "same-color train."
Use as many strips as you want.
Tell about your train below the ruler.



____ twos are ____ .

Now try a light green train.



____ threes are ____ .

Can you make a "same-color train" of your own and tell about it?

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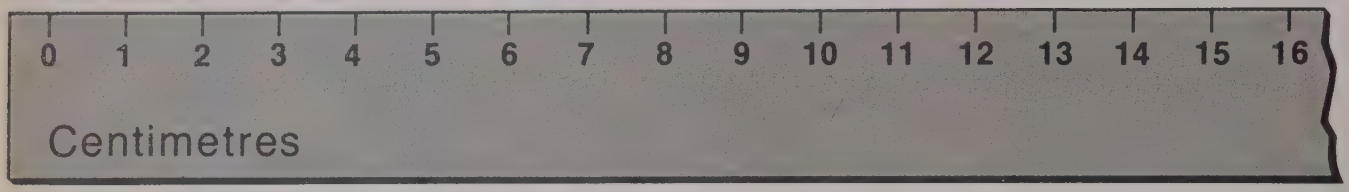
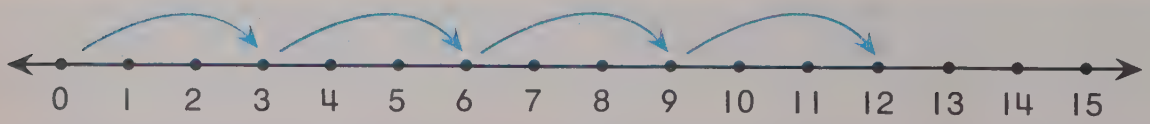
Let's talk



4 strips of 3 → How long? _____

4 sets of 3 → How many? _____



4 jumps of 3 → End where? _____

4 threes are _____.

We write:

$4 \times 3 = \square$

We say:

Four times three is _____.

Find the missing numbers.

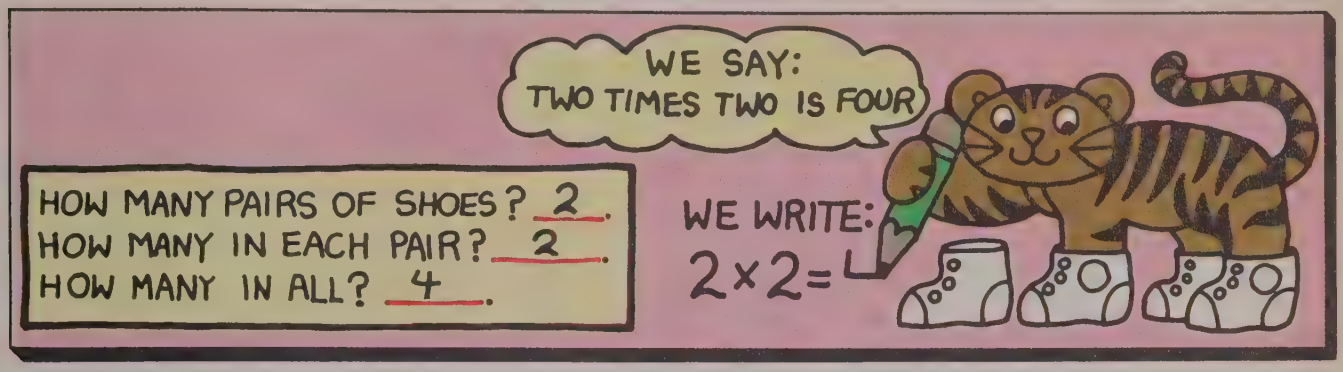
3 fives are _____.

We write:

$3 \times 5 =$

We say:

Three times five is _____.



Fill the blanks. Solve the equation.

How many sets of keys? ____

How many in each set? ____

How many in all? ____

2 threes are ____.

We write:

$2 \times 3 = \square$

We say:

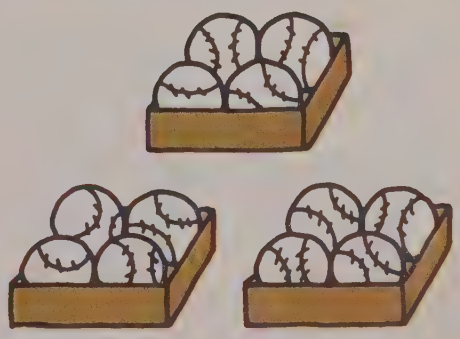
Two times three is ____.

How many boxes of balls? ____

How many in each box? ____

How many in all? ____

3 fours are ____.



We write:

$3 \times 4 = \square$

We say:

Three times four is ____.

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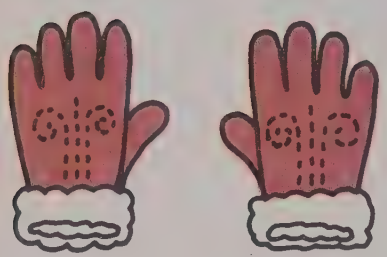
Find the missing numbers.

3 twos are _____.

$3 \times 2 = \square$

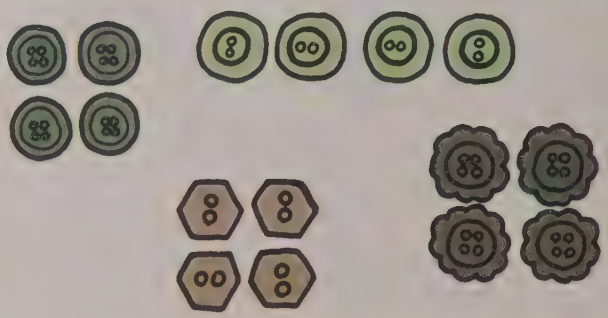
3 threes are _____.

$3 \times 3 = \square$



2 fives are _____.

$2 \times 5 = \square$



4 fours are _____.

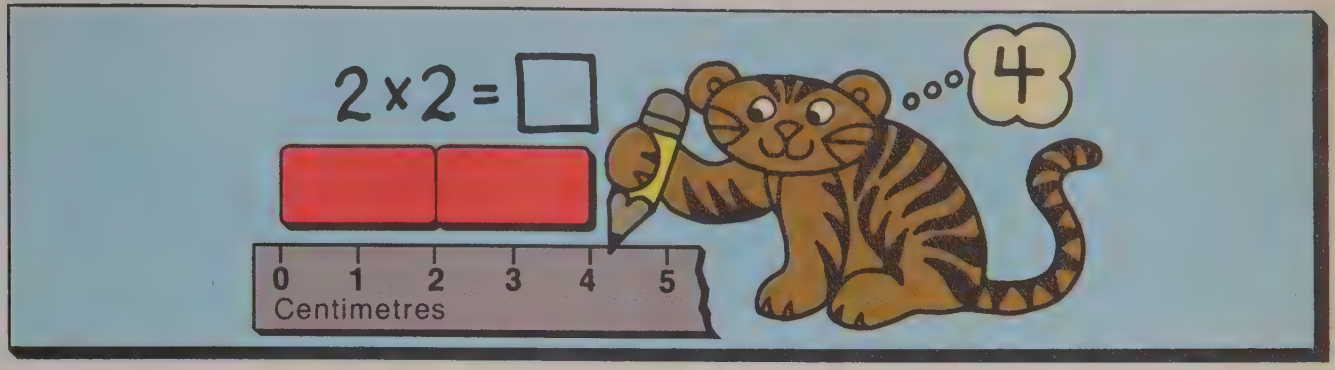
$4 \times 4 = \square$

5 threes are _____.

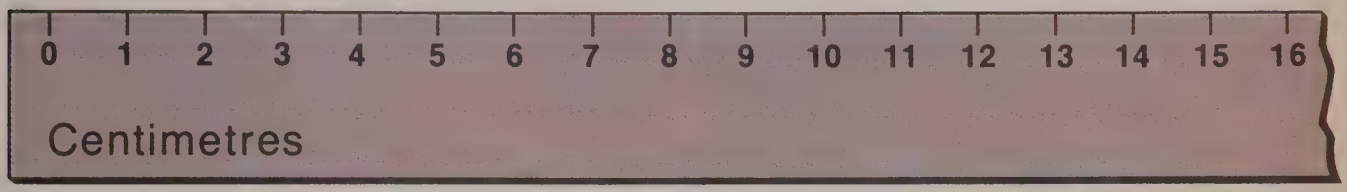
$5 \times 3 = \square$

2 fours are _____.

$2 \times 4 = \square$

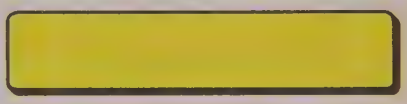


Use this ruler and your strips to help you solve each equation.

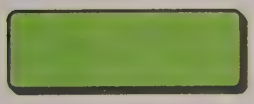


3 

3 × 2 = □

2 

2 × 5 = □

5 

5 × 3 = □

3 

3 × 4 = □

3 

3 × 5 = □

4 

4 × 3 = □

4 

4 × 4 = □

4 

4 × 2 = □

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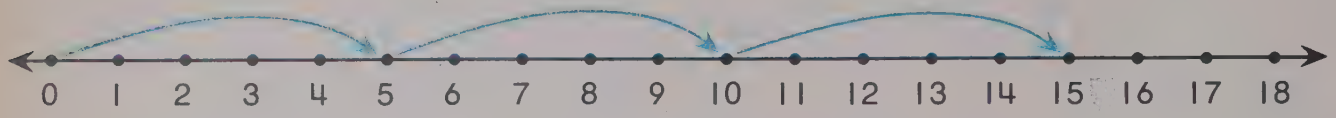
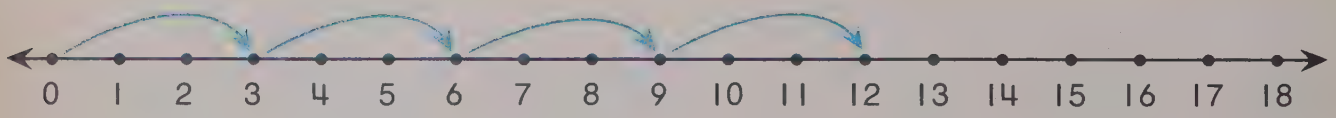
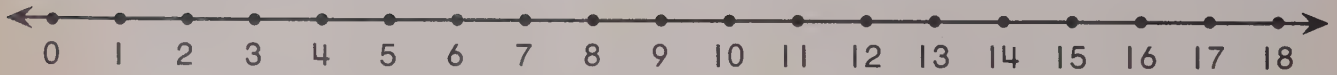
Solve the equations.



$3 \times 5 = \square$



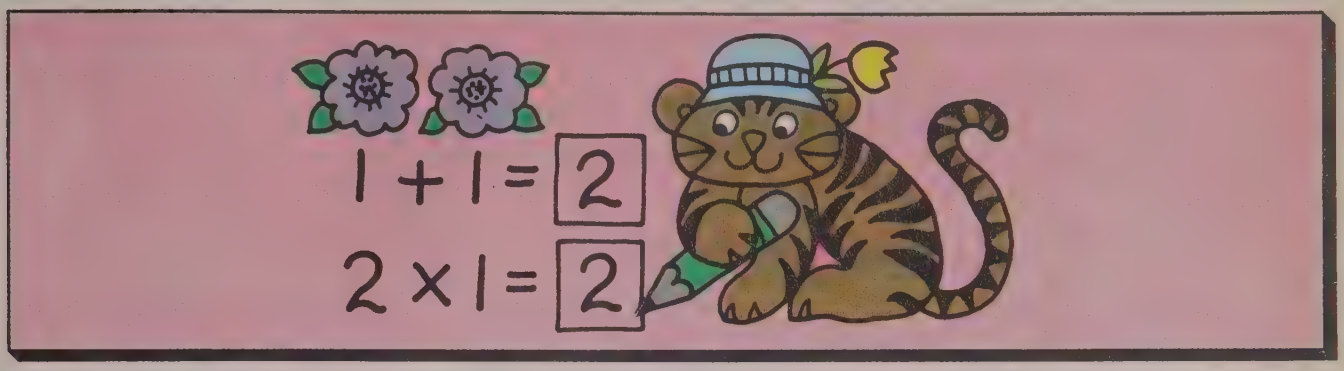
$4 \times 3 = \square$



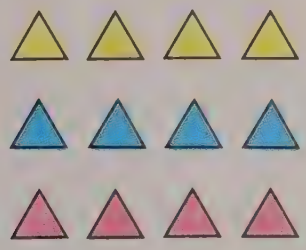
$2 \times 4 = \square$

$3 \times 4 = \square$

$5 \times 3 = \square$

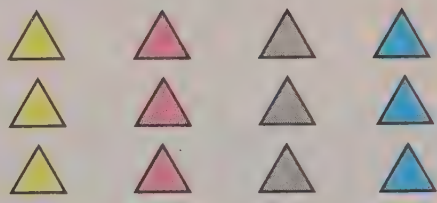


Find the sum. Then solve the equation.



4
4
+ 4

3 × 4 = ☐



3 + 3 + 3 + 3 = ☐

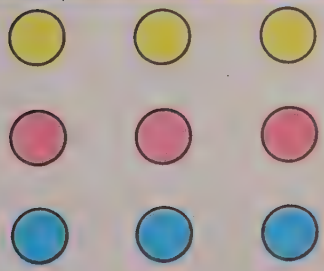
4 × 3 = ☐

3
+ 3

2 × 3 = ☐

2 + 2 + 2 = ☐

3 × 2 = ☐



3
3
+ 3

3 × 3 = ☐

3 + 3 + 3 = ☐

3 × 3 = ☐

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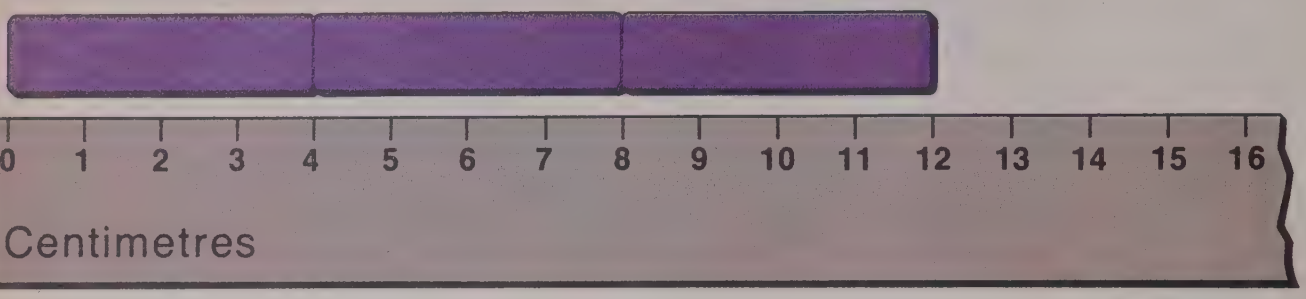
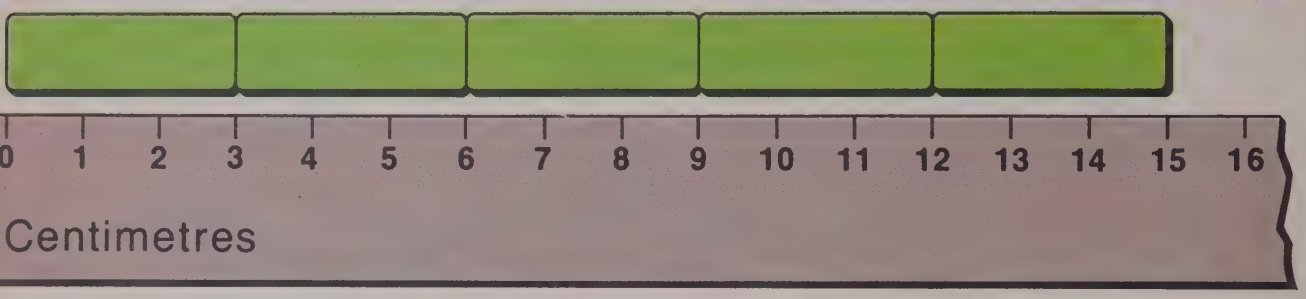
Solve the equations.

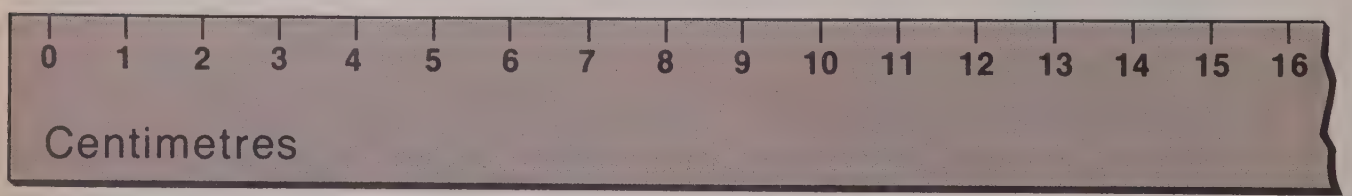


$4 + 4 + 4 =$ ☐ $3 \times 4 =$ ☐



$3 + 3 + 3 + 3 + 3 =$ ☐ $5 \times 3 =$ ☐

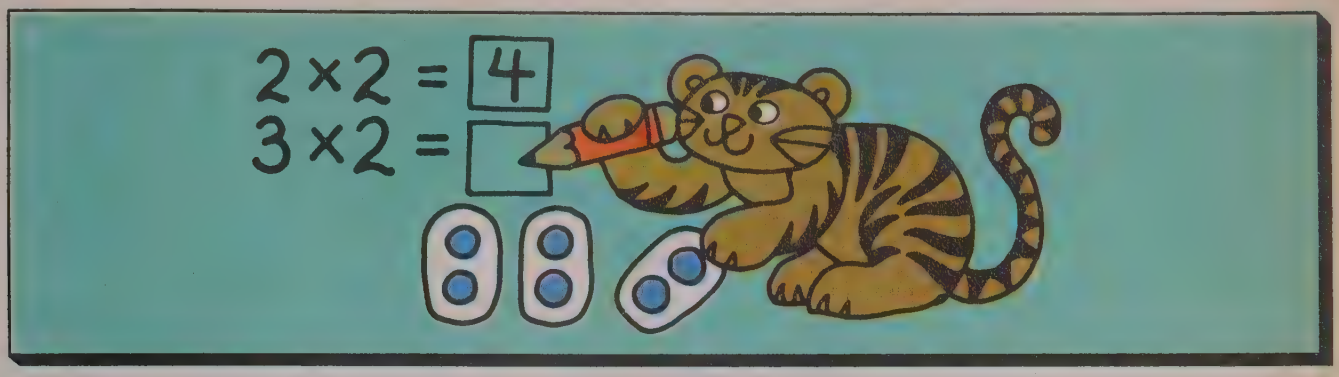
Use this ruler and your strips to help you solve the equations.



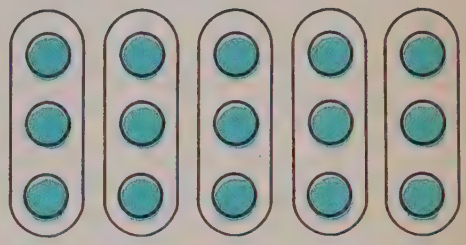
$2 + 2 + 2 + 2 + 2 =$ ☐ $5 \times 2 =$ ☐

$5 + 5 + 5 =$ ☐ $3 \times 5 =$ ☐

$3 + 3 + 3 + 3 =$ ☐ $4 \times 3 =$ ☐



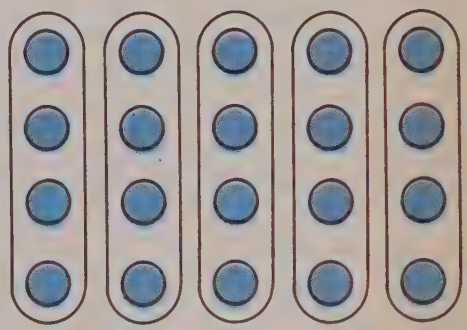
Use the sets of three to
help you solve these equations.



$2 \times 3 = \square$ $\quad 4 \times 3 = \square$

$3 \times 3 = \square$ $\quad 5 \times 3 = \square$

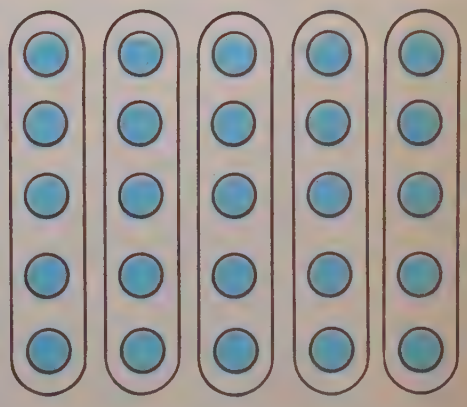
Use the sets of four to
help you solve these equations.



$2 \times 4 = \square$ $\quad 4 \times 4 = \square$

$3 \times 4 = \square$ $\quad 5 \times 4 = \square$

Use the sets of five to
help you solve these equations.



$2 \times 5 = \square$ $\quad 4 \times 5 = \square$

$3 \times 5 = \square$ $\quad 5 \times 5 = \square$

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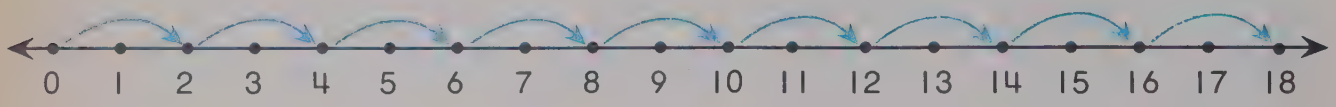
Use this number line to help you solve the equations about twos.



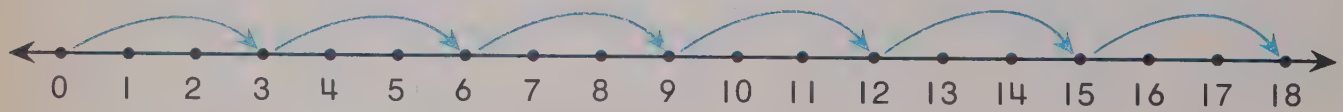
$2 \times 2 = \square$ $6 \times 2 = \square$

$3 \times 2 = \square$ $7 \times 2 = \square$

$4 \times 2 = \square$ $8 \times 2 = \square$

$5 \times 2 = \square$ $9 \times 2 = \square$

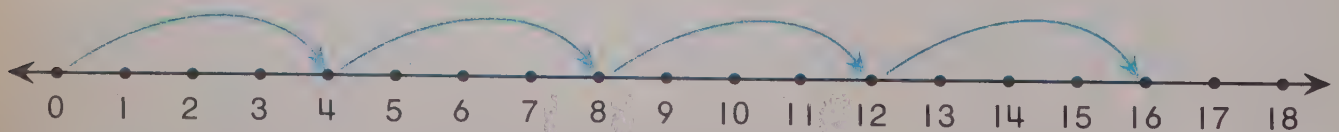
Solve the equations about threes.



$3 \times 3 = \square$ $5 \times 3 = \square$

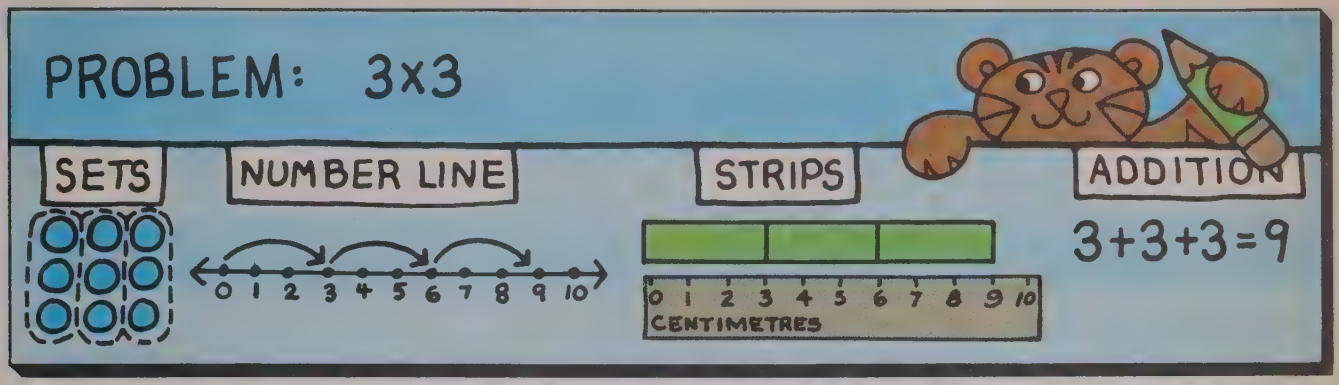
$4 \times 3 = \square$ $6 \times 3 = \square$

Solve the equations about fours.



$4 \times 4 = \square$ $2 \times 4 = \square$

$3 \times 4 = \square$ $1 \times 4 = \square$



Use the ways you like best to help you solve these equations.

$2 \times 3 = \square$ $\quad$ $4 \times 3 = \square$

$3 \times 4 = \square$ $\quad$ $4 \times 4 = \square$

$2 \times 2 = \square$ $\quad$ $2 \times 5 = \square$

$5 \times 2 = \square$ $\quad$ $2 \times 4 = \square$

$3 \times 5 = \square$ $\quad$ $5 \times 3 = \square$

$3 \times 3 = \square$ $\quad$ $5 \times 5 = \square$

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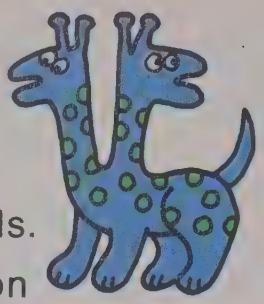
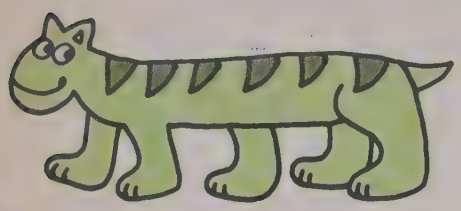
Make-believe Animals



1 A **fleek** has 2 heads. How many heads on 4 **fleeks?** ____



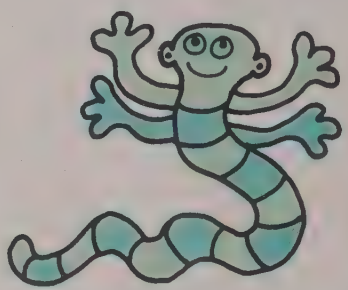
2 A **mook** has 5 legs. How many legs on 3 **mooks?** ____

3 A **muk** has 3 tails. How many tails on 4 **muks?** ____

4 Each **burt** has 4 wings. How many wings on 2 **burts?** ____

5 Each **boog** has 2 eyes to look forward, 2 eyes to look sideways, and 2 eyes to look backward. How many eyes? ____

6 Each **flook** has 3 horns on his head. How many horns on 3 **flooks?** ____



7 A **munck** has 4 arms with 3 fingers on each arm. How many fingers? ____

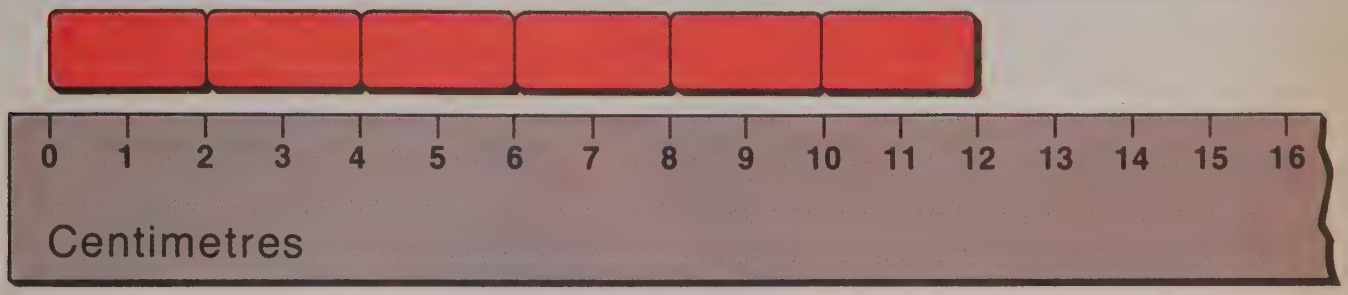
8 Each **chack** has 4 legs. How many legs on 4 **chacks?** ____

Make up an animal story of your own. Can you draw a picture of your animal?

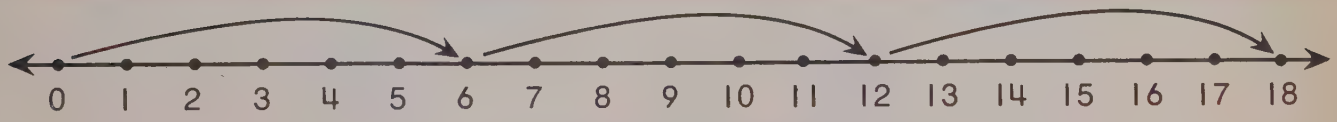
Show you know

Solve the equations.

$3 \times 5 = \square$



$6 \times 2 = \square$



$3 \times 6 = \square$

$4 + 4 + 4 = \square$

$3 \times 4 = \square$

$2 \times 5 = \square$

$3 \times 3 = \square$

$3 \times 2 = \square$

$5 \times 3 = \square$

$4 \times 3 = \square$

$4 \times 4 = \square$

$2 \times 2 = \square$

$4 \times 5 = \square$

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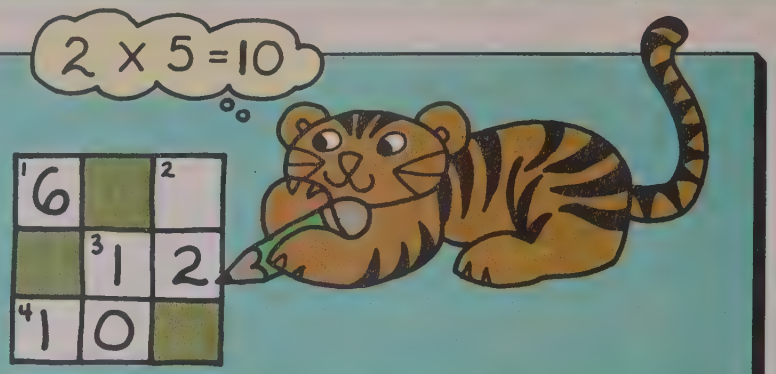
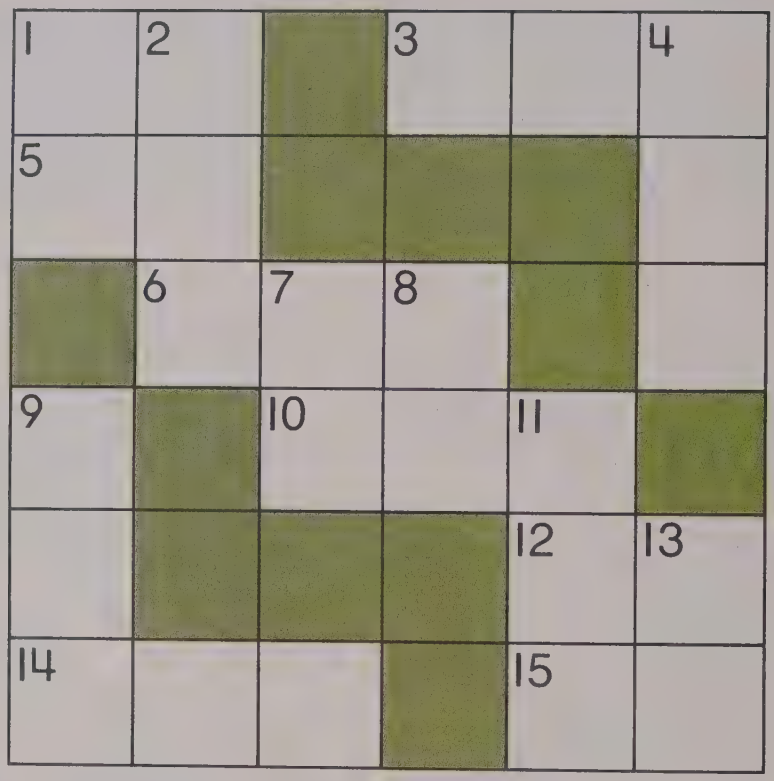
Let's have fun

ACROSS	DOWN
① 2×3	② 2×6
③ 8+4	③ 6+4
④ 2×5	



Work the puzzle.



Across

1. One less than 100
3. 132 + 102
5. 4 fives
6. 100 + 60 + 9
10. 723 − 222
12. 7 + 4
14. ten tens
15. 3 × 4

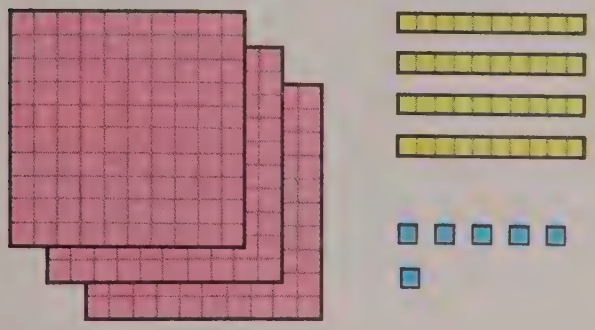
Down

1. 9 tens and 2
2. 897, 898, 899, 900, ___?___
4. 143 + 324
7. 20 + 40 + 3 + 2
8. 10 less than 100.
9. 700 + 50 + 1
11. 1 hundred, 1 ten and 1
13. 7 + 5

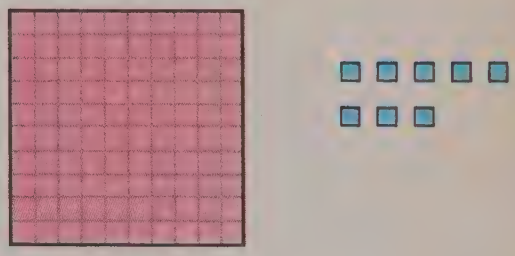
Cross numeral puzzle

Looking back

How many?



____



____

Find the sums and differences.

641 + 233	136 + 540	493 + 406	838 − 205	796 − 125	457 − 230
333 + 256	224 + 775	600 + 287	669 − 516	978 − 423	588 − 123
364 + 115	703 + 192	470 + 500	778 − 601	895 − 195	369 − 118

126 children ride buses to school. 233 children walk to school. How many children in all? ____

A table is 265 centimetres long. It is 124 centimetres wide. How much longer than wide is it? ____

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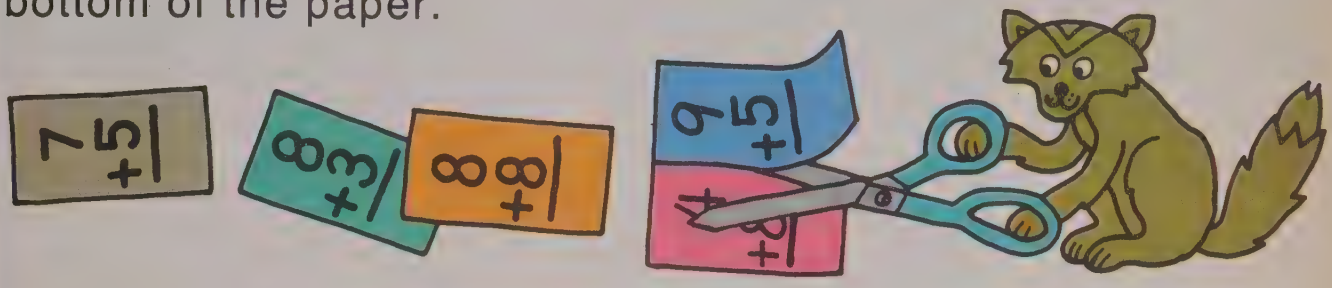
Solve the equations.

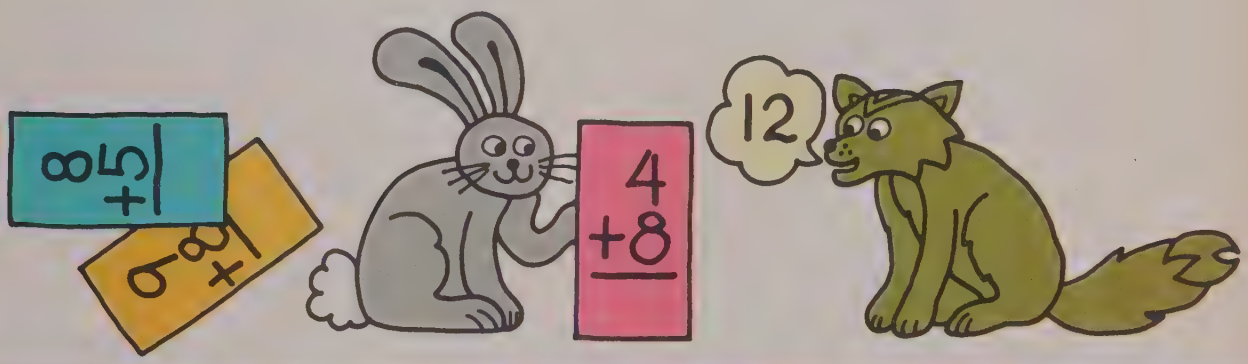
$7 + 5 = \square$	$8 + 5 = \square$
$8 + 3 = \square$	$9 + 3 = \square$
$9 + 5 = \square$	$6 + 4 = \square$
$6 + 7 = \square$	$9 + 8 = \square$
$\square + 3 = 11$	$\square + 6 = 14$
$11 - 3 = \square$	$14 - 6 = \square$
$\square + 9 = 14$	$\square + 8 = 17$
$14 - 9 = \square$	$17 - 8 = \square$
$2 \times 2 = \square$	$2 \times 5 = \square$
$3 \times 2 = \square$	$3 \times 4 = \square$
$2 \times 4 = \square$	$2 \times 6 = \square$
$4 \times 4 = \square$	$5 \times 4 = \square$

Let's do

Cut out the **fact cards** at the bottom of the paper.



Choose 3 of them to memorize.
Have a classmate test you.



7 +5	6 +8	7 +6	8 +3	7 +8
8 +5	8 +8	9 +8	4 +8	9 +5

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Let's talk

Complete the addition table. Can you find some patterns in the table?

+	0	1	2	3	4	5	6	7	8
0									
1									
2									
3									
4							4 + 6 = 10		
5									
6					6 + 4 = 10				
7									
8									

15	11	13	14	12
14	12	17	16	13

Solve the equations.

4 + 8 = ☐	4 + 5 = ☐
7 + 4 = ☐	7 + 8 = ☐
8 + 9 = ☐	6 + 7 = ☐
2 + 6 = ☐	8 + 3 = ☐
7 + 3 = ☐	6 + 8 = ☐
9 + 5 = ☐	8 + 8 = ☐

Complete the tables.

Add 4	
7	⋮⋮
6	
4	
8	

Add 7	
8	
7	
5	
6	

Add 5	
8	
5	
6	
9	

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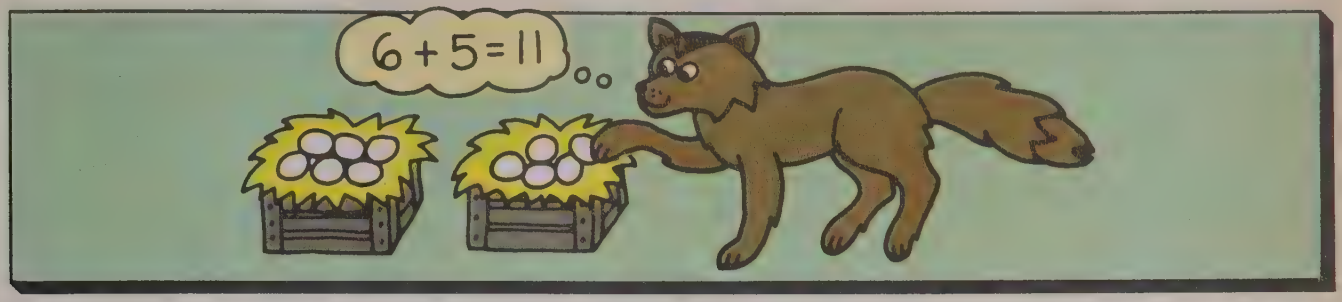
Find the sums.

7 + 5	5 + 6	3 + 6	5 + 9	2 + 5	8 + 2
4 + 4	3 + 7	8 + 6	5 + 4	6 + 7	8 + 7
8 + 5	4 + 8	7 + 4	8 + 8	4 + 2	6 + 9

Ring the correct sum.

7 + 8	14	15	16
9 + 5	14	15	16
8 + 8	14	15	16
9 + 6	14	15	16
9 + 7	14	15	16
6 + 8	14	15	16



Find the sums.

3 + 4 = ☐	5 + 7 = ☐
9 + 8 = ☐	4 + 6 = ☐
4 + 7 = ☐	6 + 8 = ☐
7 + 7 = ☐	9 + 6 = ☐
7 + 2 = ☐	6 + 5 = ☐
8 + 4 = ☐	4 + 9 = ☐
6 + 9 = ☐	9 + 7 = ☐

8	2	9	5	6	3
+8	+6	+3	+9	+7	+7
8	5	9	9	8	8
+3	+8	+9	+0	+7	+6

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Grade Jeanie's paper.

Name Jeanie

Find the sums.

1. $7 + 4 =$ 11
2. $3 + 9 =$ 12
3. $6 + 6 =$ 12
4. $8 + 2 =$ 11
5. $5 + 9 =$ 14
6. $6 + 3 =$ 9
7. $8 + 7 =$ 14
8. $7 + 9 =$ 15
9. $0 + 9 =$ 9
10. $7 + 6 =$ 15
11. $8 + 8 =$ 16
12. $6 + 4 =$ 10
13. $9 + 7 =$ 16
14. $5 + 8 =$ 14

Give the sum for each ▢.

		9	12
	6	5	11
	7	4	11
12		9	10

	3	8	
	5	9	

Show you know

Find the sums.

$8 + 3 = \square$	$3 + 7 = \square$
$3 + 2 = \square$	$8 + 6 = \square$
$7 + 6 = \square$	$8 + 7 = \square$
$2 + 5 = \square$	$4 + 8 = \square$
$6 + 9 = \square$	$7 + 2 = \square$
$5 + 7 = \square$	$4 + 9 = \square$
$8 + 2 = \square$	$2 + 4 = \square$
$4 + 5 = \square$	$4 + 7 = \square$

$9 + 5$	$3 + 6$	$9 + 6$	$5 + 6$	$4 + 4$	$7 + 7$
$6 + 6$	$9 + 8$	$8 + 5$	$8 + 8$	$5 + 5$	$6 + 7$

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Let's have fun

2, ~~3~~, 4, 5, ~~6~~, 7, ~~8~~, ~~9~~, 10

Can you put these numbers in the squares so the sum in any row →, column ↓ or diagonal ↖ ↙ is 18?

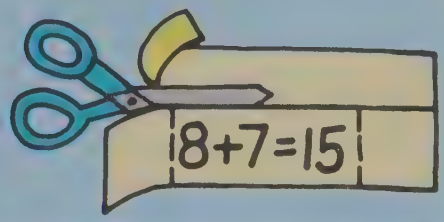
2, ~~3~~, 4, 5, ~~6~~, 7, ~~8~~, ~~9~~, 10

The puzzle is started for you.

		3
	6	8
9		

Let's do

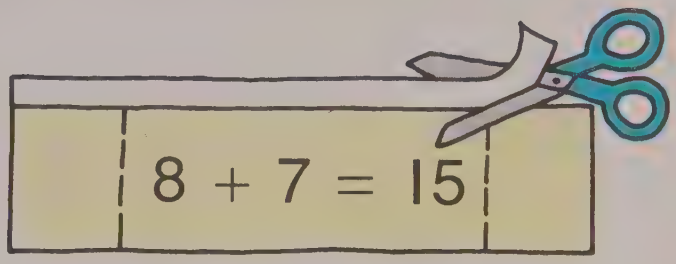
STEP 1



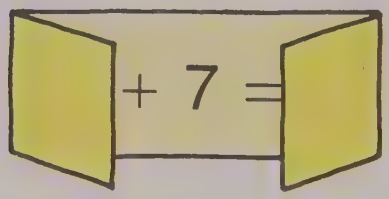
STEP 2

Cut and fold.

Step 1



Step 2



	8 + 7 = 15			8 + 5 = 13	
	7 + 6 = 13			4 + 8 = 12	
	5 + 6 = 11			9 + 5 = 14	
	7 + 5 = 12			3 + 8 = 11	
	6 + 8 = 14			9 + 3 = 12	

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Let's talk

Explain how to find the differences easily.

$9 + 8 = 17$

$17 - 8 = \square$

$17 - 9 = \square$

$6 + 7 = 13$

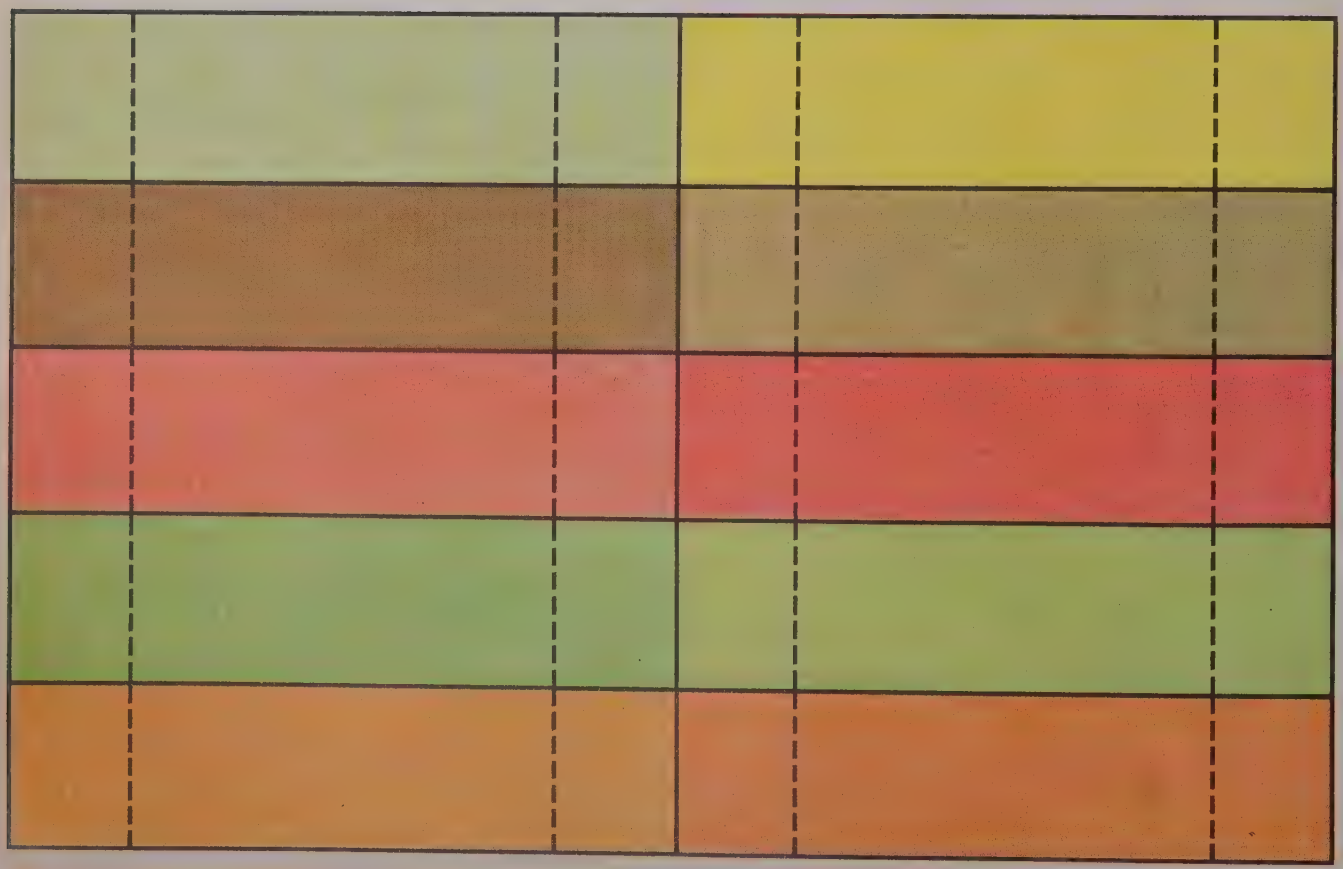
$13 - 7 = \square$

$13 - 6 = \square$

$78 + 49 = 127$

$127 - 49 = \square$

$127 - 78 = \square$



First find these sums.

6 + 5 = ☐	8 + 7 = ☐
4 + 8 = ☐	8 + 6 = ☐
7 + 6 = ☐	6 + 6 = ☐
5 + 9 = ☐	4 + 9 = ☐
7 + 5 = ☐	8 + 3 = ☐

Now find these "hidden" addends.

☐ + 5 = 12	☐ + 7 = 15
☐ + 6 = 14	☐ + 6 = 13
☐ + 5 = 11	☐ + 3 = 11
☐ + 9 = 13	☐ + 8 = 12
☐ + 6 = 12	☐ + 9 = 14

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Find the sums.

$4 + 9 = \square$

$5 + 4 = \square$

$7 + 3 = \square$

$6 + 9 = \square$

$7 + 7 = \square$

$3 + 9 = \square$

$8 + 3 = \square$

$5 + 5 = \square$

$5 + 8 = \square$

$8 + 4 = \square$

$9 + 7 = \square$

$4 + 7 = \square$

Solve the equations.

$\square + 4 = 12$

$\square + 5 = 10$

$\square + 8 = 13$

$\square + 9 = 15$

$\square + 3 = 11$

$\square + 3 = 10$

$\square + 7 = 16$

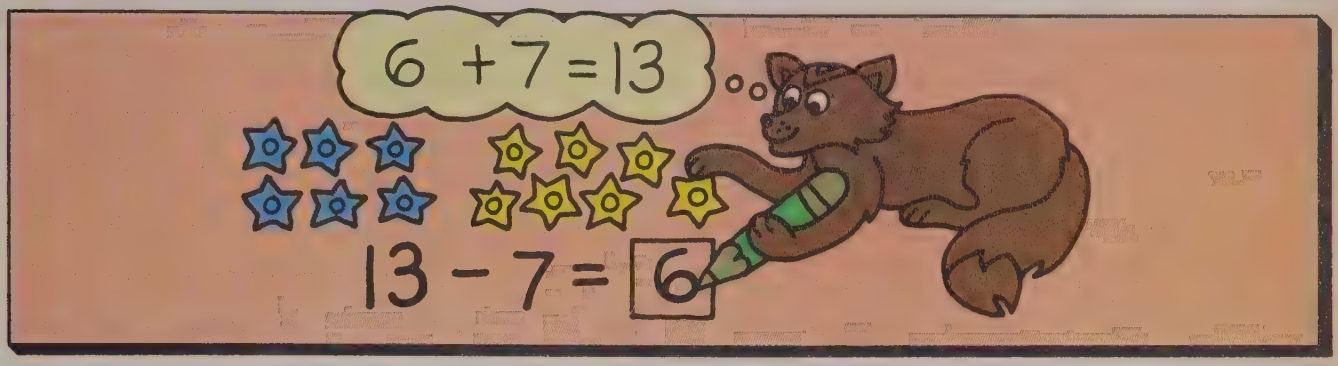
$\square + 9 = 13$

$\square + 7 = 11$

$\square + 4 = 9$

$\square + 9 = 12$

$\square + 7 = 14$



Solve the equations.

$\square + 5 = 12$ $12 - 5 = \square$	$\square + 4 = 13$ $13 - 4 = \square$
$\square + 6 = 11$ $11 - 6 = \square$	$\square + 7 = 10$ $10 - 7 = \square$
$\square + 6 = 14$ $14 - 6 = \square$	$\square + 8 = 15$ $15 - 8 = \square$
$\square + 5 = 13$ $13 - 5 = \square$	$\square + 3 = 12$ $12 - 3 = \square$
$\square + 7 = 11$ $11 - 7 = \square$	$\square + 6 = 14$ $14 - 6 = \square$

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Find the differences.

$13 - 7 = \square$

$10 - 6 = \square$

$8 - 5 = \square$

$11 - 2 = \square$

$18 - 9 = \square$

$12 - 7 = \square$

$14 - 8 = \square$

$9 - 5 = \square$

$10 - 4 = \square$

$13 - 5 = \square$

$12 - 6 = \square$

$15 - 8 = \square$

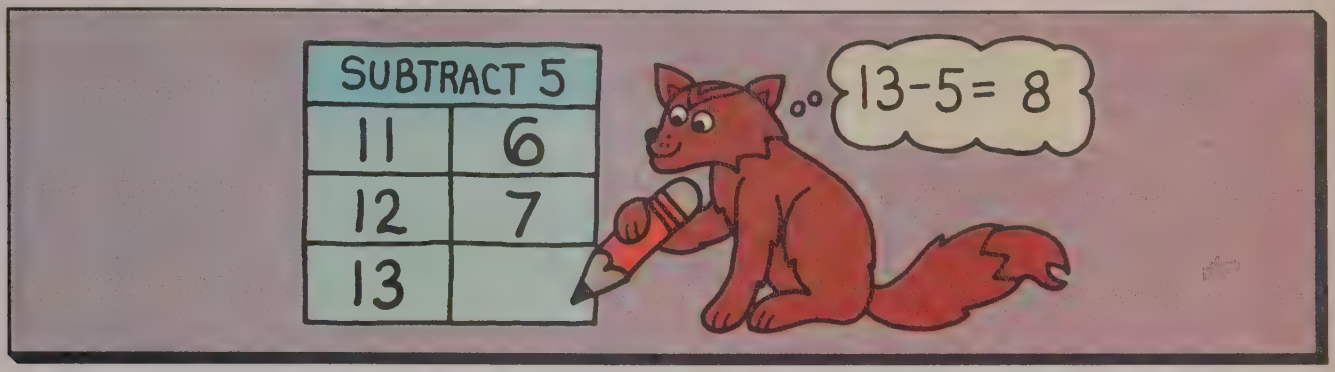
$8 - 8 = \square$

$14 - 5 = \square$

$13 - 8 = \square$

$11 - 4 = \square$

13 − 6	12 − 8	15 − 6	11 − 3	7 − 4	10 − 5
11 − 5	16 − 9	9 − 3	14 − 6	12 − 9	13 − 4



Complete each table.

Subtract 6	
10	
11	
12	

Add 4	
8	
9	
10	

Subtract 4	
12	
13	
14	

Grade Mary Jo's paper.

Solve the equations. Name Mary Jo

7 + 6 = 13	12 − 5 = 7
8 + 2 = 11	4 + 6 = 11
9 − 4 = 13	7 − 6 = 13
10 + 6 = 16	18 − 8 = 10
12 − 7 = 5	10 + 7 = 3
15 − 5 = 9	16 − 9 = 7
9 + 2 = 11	7 + 9 = 16
14 − 7 = 6	5 + 5 = 10

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Freddie the Frog

Freddie the frog is the happiest frog in the pond. He is always jumping around and having fun. You can find out more about Freddie and his friends if you work the problems.

1. Freddie jumps 7 metres. Then he jumps 6 metres. How far does he jump? _____

2. Freddie is in a jumping contest. He jumps 17 metres. His friend can jump only 8 metres. How much farther can Freddie jump? _____

3. One day Freddie caught 9 flies. The next day he caught 5. How many did he catch in all? _____

4. Freddie went to see Tim the Turtle. He made 13 jumps to get there. He made only 9 jumps coming back. How many more jumps to get there? _____

5. Freddie saw a snail. It crawled 6 centimetres in one hour and 9 centimetres in another hour. How far in all? _____

6. Freddie saw 14 fish by a rock in the pool. 8 fish swam away. How many fish were left? _____

7. 13 birds were in a tree. Freddie made a big splash. 8 birds flew away. How many were left? _____

Find the sums and differences.

8 + 4 = ☐	3 + 7 = ☐
6 + 5 = ☐	14 − 7 = ☐
4 + 9 = ☐	10 − 6 = ☐
13 − 6 = ☐	7 + 8 = ☐
11 − 5 = ☐	15 − 9 = ☐
12 − 8 = ☐	5 + 7 = ☐

9	8	6	14	13	11
+3	+6	+7	−8	−5	−7
7	12	13	4	8	11
+7	−9	−7	+7	+5	−6

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Jerry the Jet

Jerry the jet is a very big airplane. Jerry carries people all around the country. He is so fast that he can fly a long way in a short time. The problems tell you more about Jerry.

1. It takes 3 people to fly Jerry and 6 to take care of the passengers. How many? ____

2. Jerry can fly all the way across the country in 5 hours. How long to go across and back? ____

3. One morning 13 jets were at the airport. 7 took off. How many still there? ____

4. Jerry visited 7 cities one week and 5 the next. How many? ____

5. Jerry likes to fly boys and girls. One trip he had 6 boys and 8 girls. How many children? ____

6. Jerry can fly 6 hundred kilometres in 1 hour. How far can he fly in 2 hours?

7. Jerry has 13 empty seats. 6 more people get on board. How many empty seats now? ____

Show you know

Find the sums and differences.

$8 + 4 = \square$

$5 + 6 = \square$

$7 + 7 = \square$

$7 + 8 = \square$

$2 + 8 = \square$

$5 + 7 = \square$

$12 - 6 = \square$

$14 - 6 = \square$

$11 - 4 = \square$

$10 - 2 = \square$

$13 - 8 = \square$

$15 - 8 = \square$

9	14	4	12	10	7
+5	−5	+7	−4	−1	+6
11	8	8	15	5	13
−9	+9	+8	−9	+8	−6

Betty had 15 cents. She spent 7 cents. How much does she have left? ____

Tom had 8 baseball cards. Len gave him 3 more. How many does he have now? ____

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Let's have fun

13	12	10
−8	−3	+5
5	9	15
F	O	X

Write the sum or difference on yellow. Use the code to put the letters on blue.

Code

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
A	C	D	E	F	I	H	N	O	R	S	T	U	W	X	Y

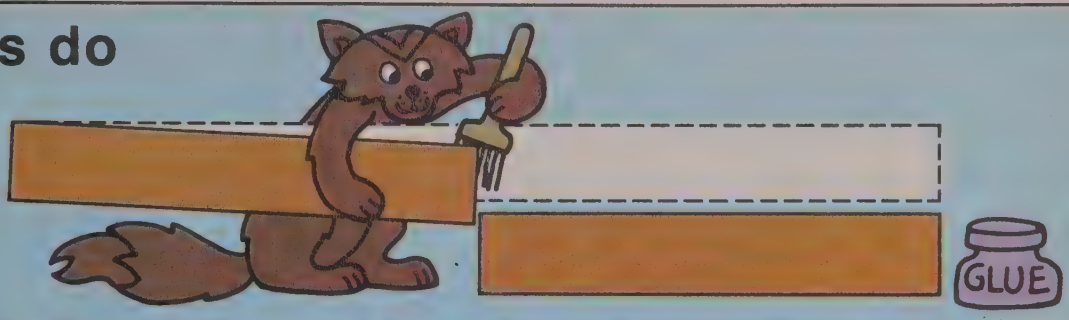
7	5	4		9	18	6		9	7	8	9
−5	−4	+4		+7	−9	+7		−6	+3	−7	+5

10	12	4	17	12	8		11	8	11	11
−9	−7	+9	−9	−4	+8		−6	−7	−9	−7

Let's do

1

2



Fill in each space with the same-size pieces.
The yellow numeral tells you how many to use.

Paste in 1 of the 3

Paste in 1 of the 4

Paste in 3 of the 4

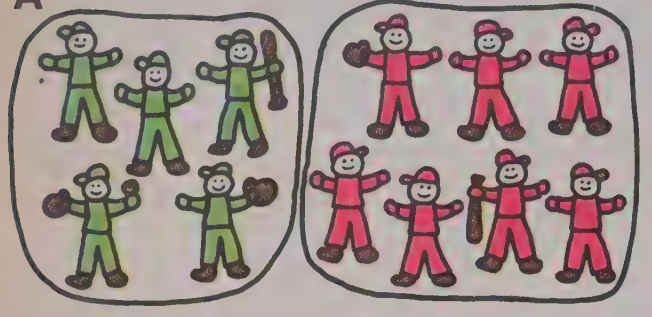
Paste in 2 of the 3

Let's talk

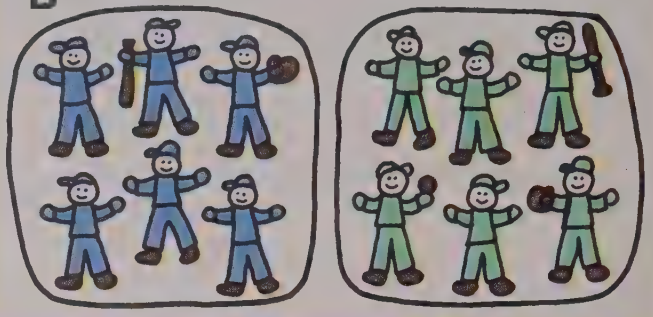
Which picture is correct, A or B?

Half of the players are on each team.

A

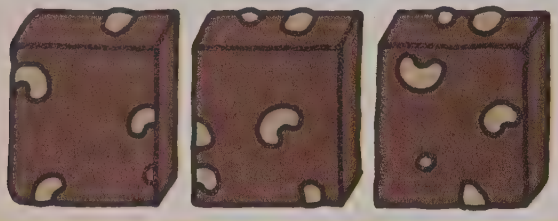


B

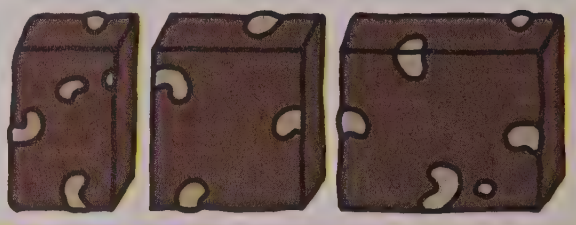


Three children share a candy bar equally.

A

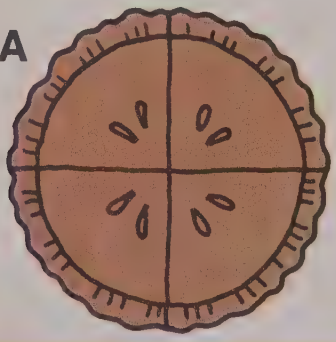


B

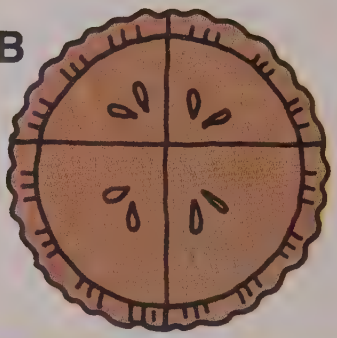


Four pieces are the same size.

A

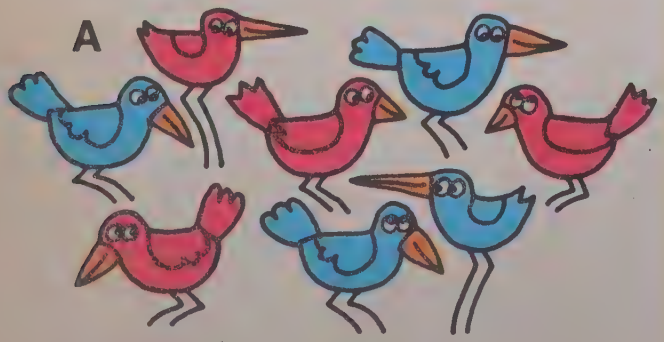


B

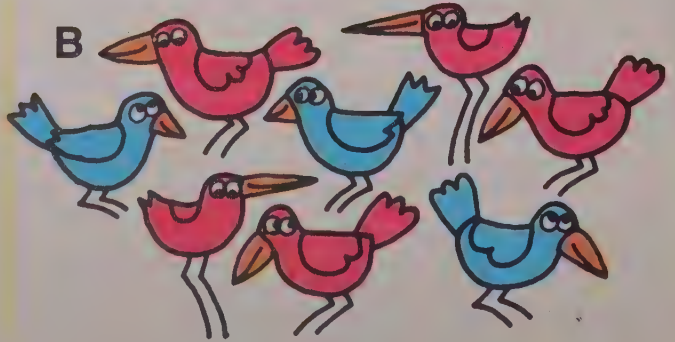


Half of the birds are red.

A



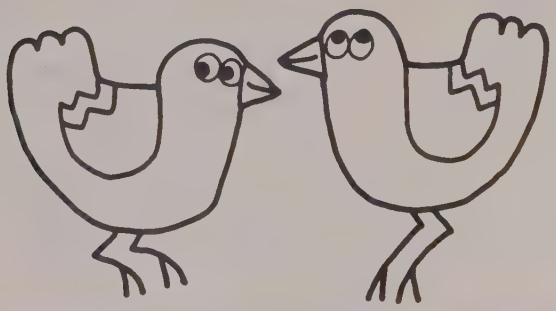
B



Color $\frac{1}{2}$ of the parts.

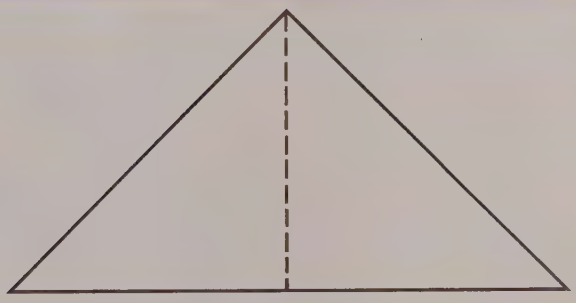
$\frac{1}{2}$ **(one half)** of the rectangle is colored.

Color $\frac{1}{2}$ of the birds.



$\frac{1}{2}$ **(one half)** of the birds are colored.

Color $\frac{1}{2}$ of the parts.



$\frac{1}{2}$ **(one half)** of the triangle is colored.

Color $\frac{2}{2}$ of the parts.

$\frac{2}{2}$ **(two halves)** of the figure is colored.

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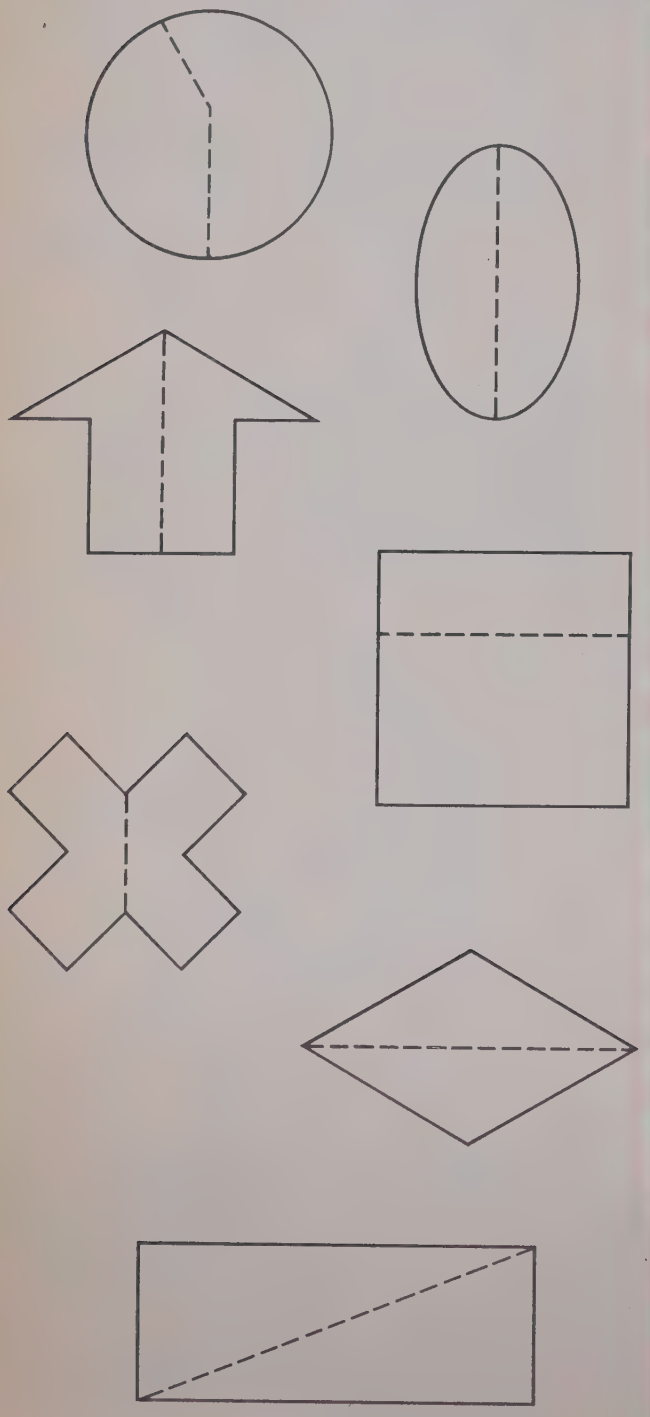
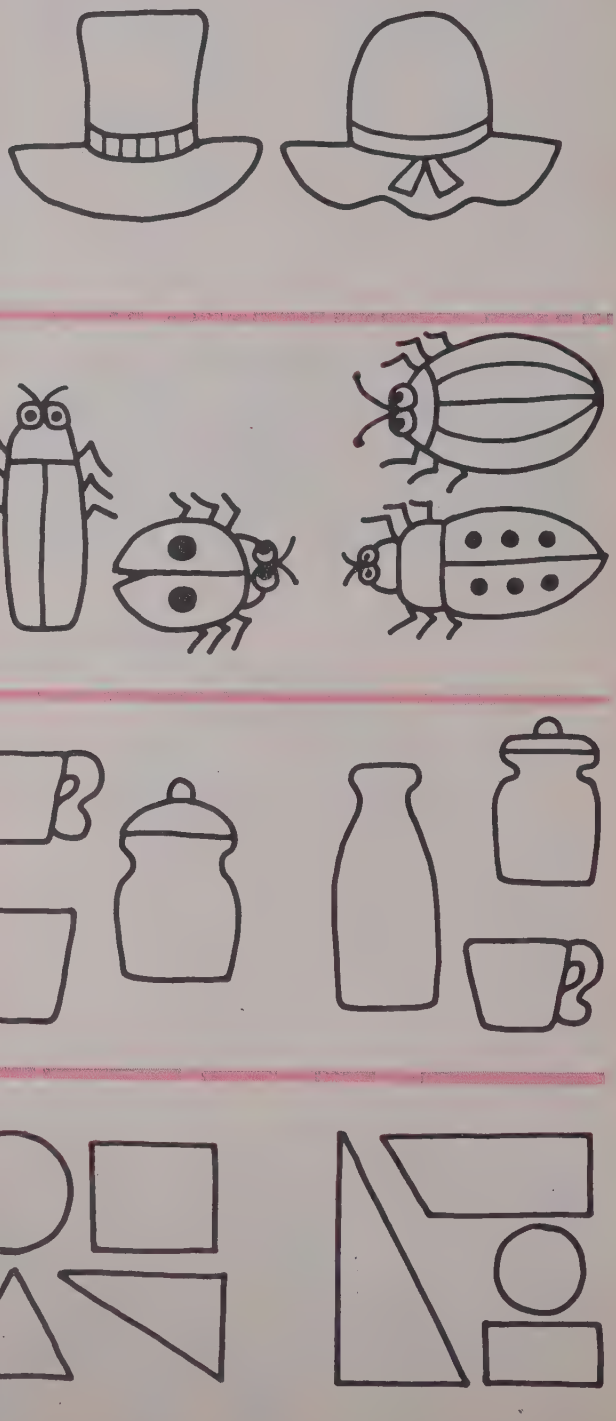
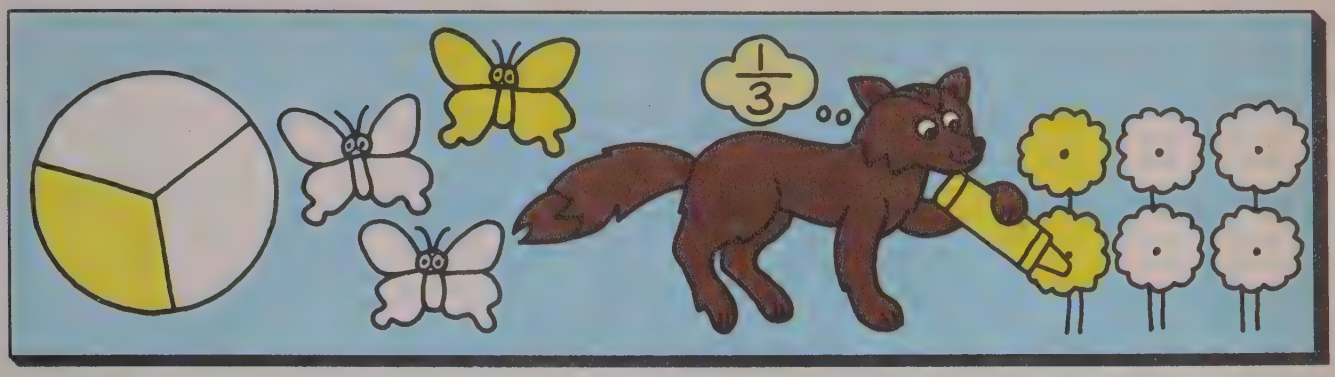
Mark an X on the figures that do not show halves. Color $\frac{1}{2}$ of each figure not marked. Color the other half a different color.

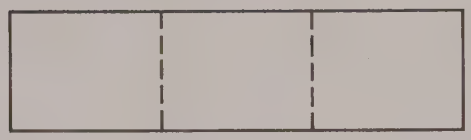


Color $\frac{1}{2}$ of the objects in each picture. Color the other half a different color.



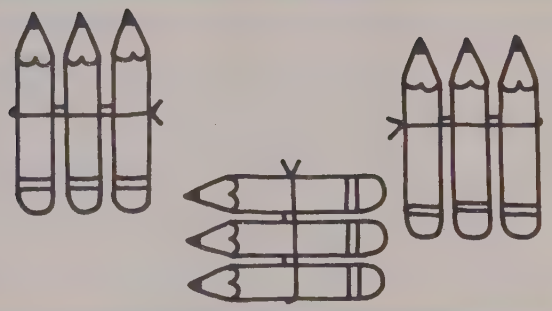


Color 1 of the 3 parts shown



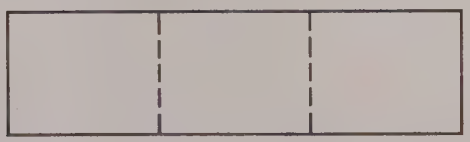
$\frac{1}{3}$ **(one third)** of the rectangle is colored.

Color the pencils in 1 of the 3 sets.



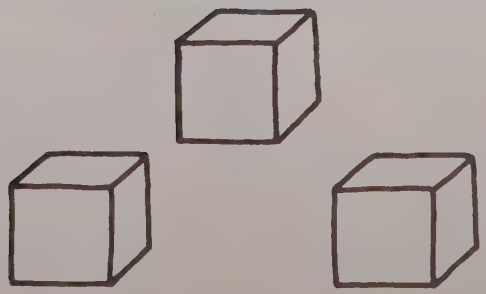
$\frac{1}{3}$ **(one third)** of the pencils are colored.

Color 2 of the 3 parts shown



$\frac{2}{3}$ **(two thirds)** of the rectangle is colored.

Color 3 of the 3 boxes shown



$\frac{3}{3}$ **(three thirds)** of the boxes are colored.

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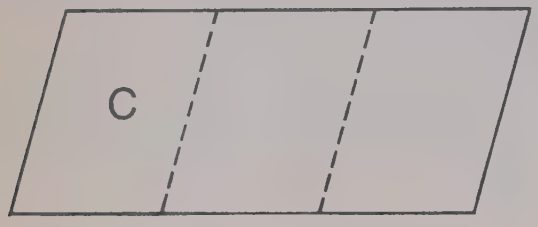
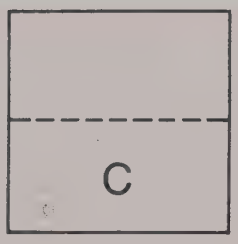
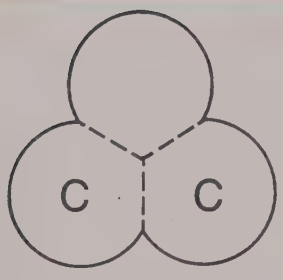
Color each part that has a C on it.
Ring the correct fraction.



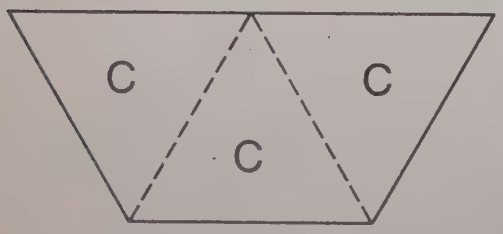
$\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{2}$ $\frac{2}{3}$ $\frac{3}{3}$



$\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{2}$ $\frac{2}{3}$ $\frac{3}{3}$

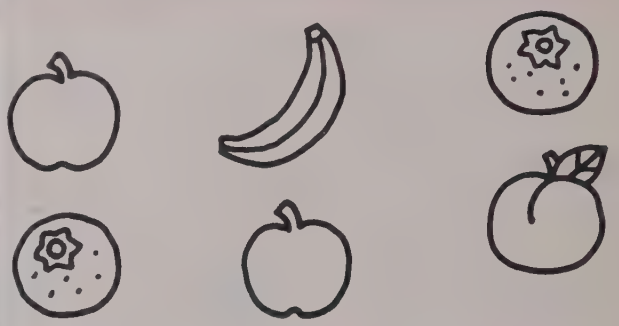


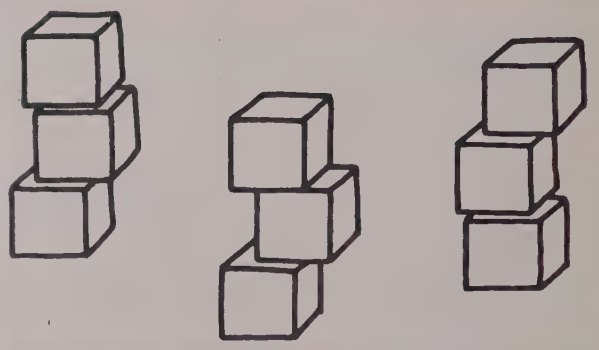
$\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{2}$ $\frac{2}{3}$ $\frac{3}{3}$

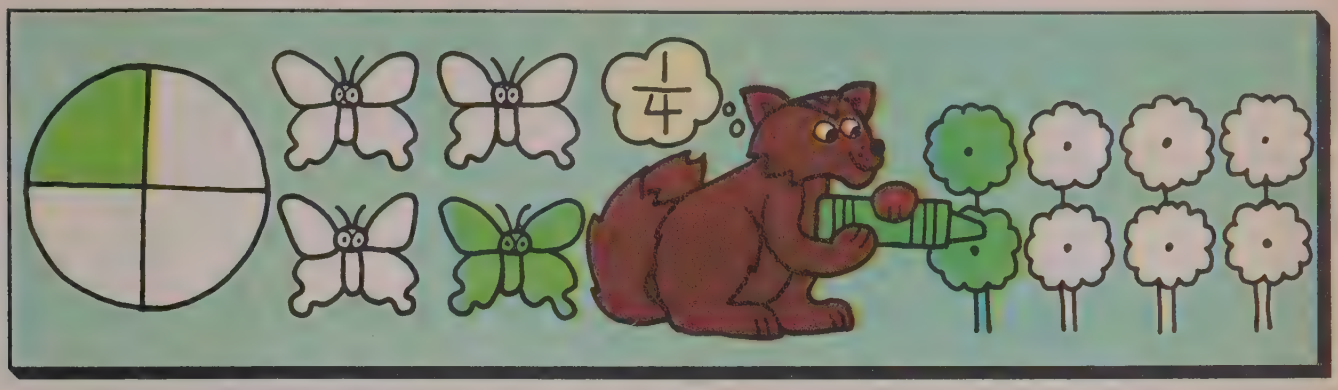


$\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{2}$ $\frac{2}{3}$ $\frac{3}{3}$

Color $\frac{1}{3}$ of the objects in each picture.





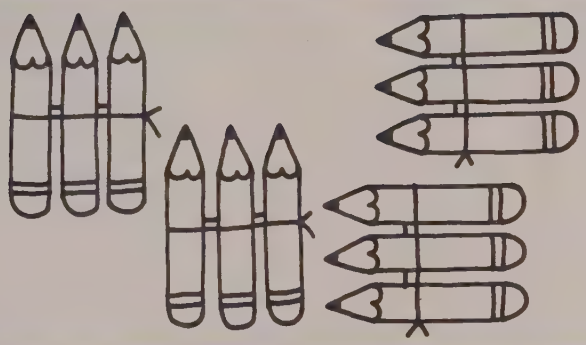


Color 1 of the 4 parts.

$\frac{1}{4}$ **(one fourth)**

of the rectangle is colored.

Color the pencils in 2 of the 4 sets.



$\frac{2}{4}$ **(two fourths)**

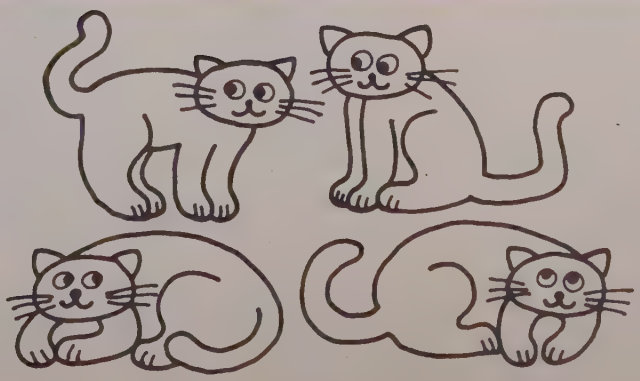
of the pencils are colored.

Color 3 of the 4 parts.

$\frac{3}{4}$ **(three fourths)**

of the rectangle is colored.

Color 4 of the 4 cats.



$\frac{4}{4}$ **(four fourths)**

of the cats are colored.

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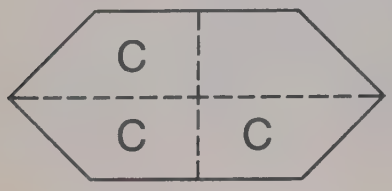
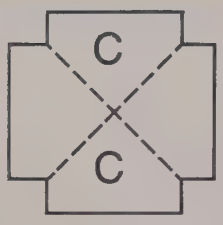
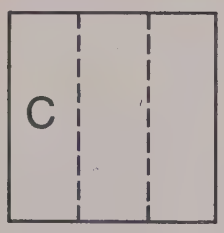
Color each part that has a C on it.
Ring the correct fraction.



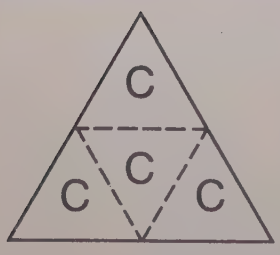
$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{4}{4}$



$\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{2}{4}$ $\frac{3}{4}$ $\frac{4}{4}$

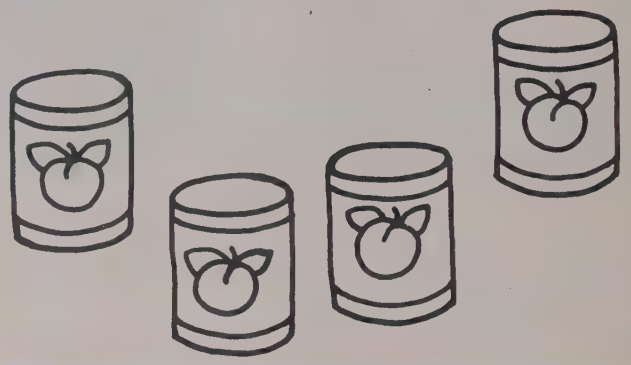


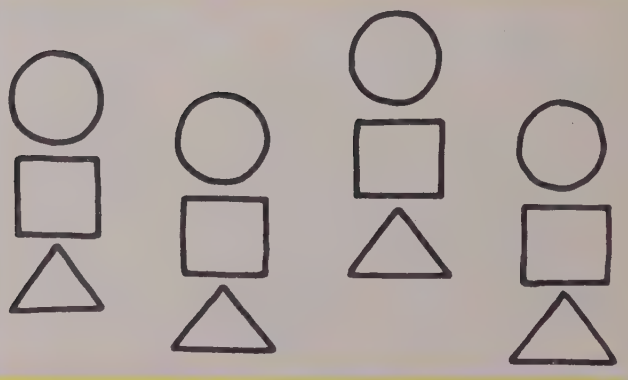
$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{4}{4}$

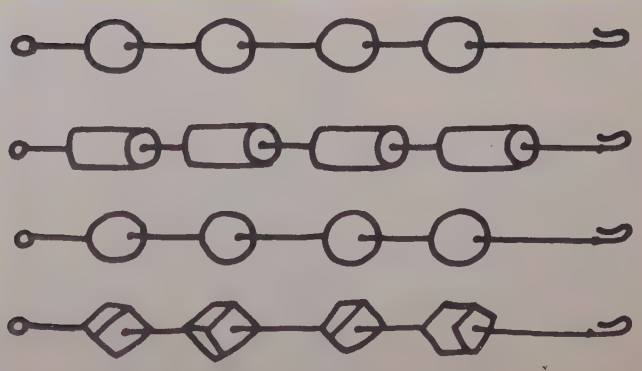


$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{4}{4}$

Color $\frac{1}{4}$ of the objects in each picture.



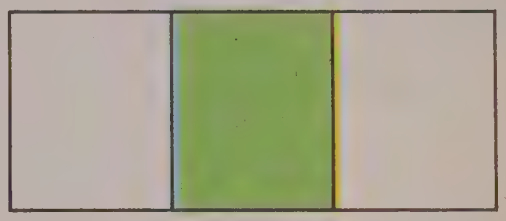




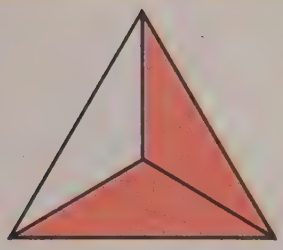
Show you know

Ring the fraction for the colored part.

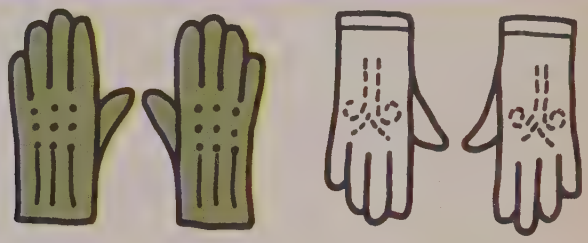
$\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ $\frac{2}{3}$ $\frac{4}{4}$



$\frac{3}{4}$ $\frac{1}{2}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{1}{3}$ $\frac{3}{3}$



$\frac{1}{3}$ $\frac{2}{3}$ $\frac{1}{4}$ $\frac{3}{4}$ $\frac{1}{2}$ $\frac{3}{3}$



$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{2}{2}$

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{3}{3}$

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{4}{4}$

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{3}{3}$

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{2}{3}$ $\frac{3}{4}$ $\frac{4}{4}$

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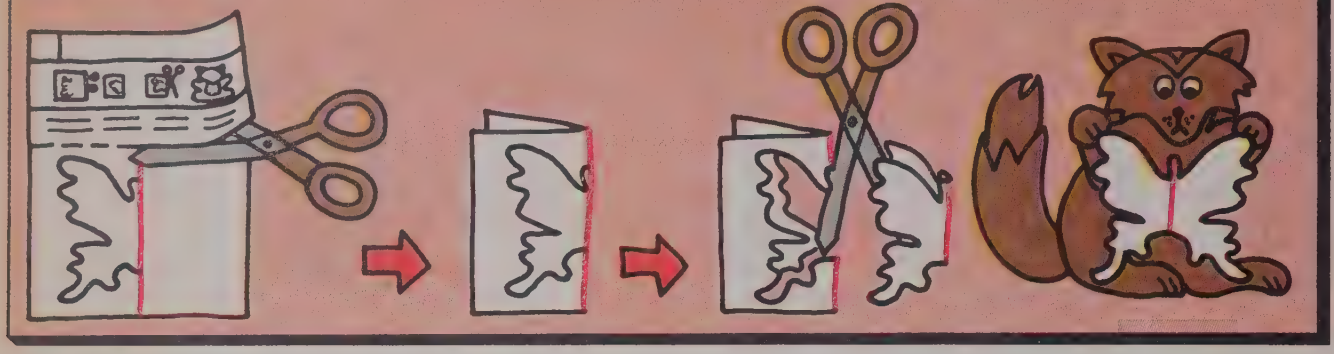
Let's have fun



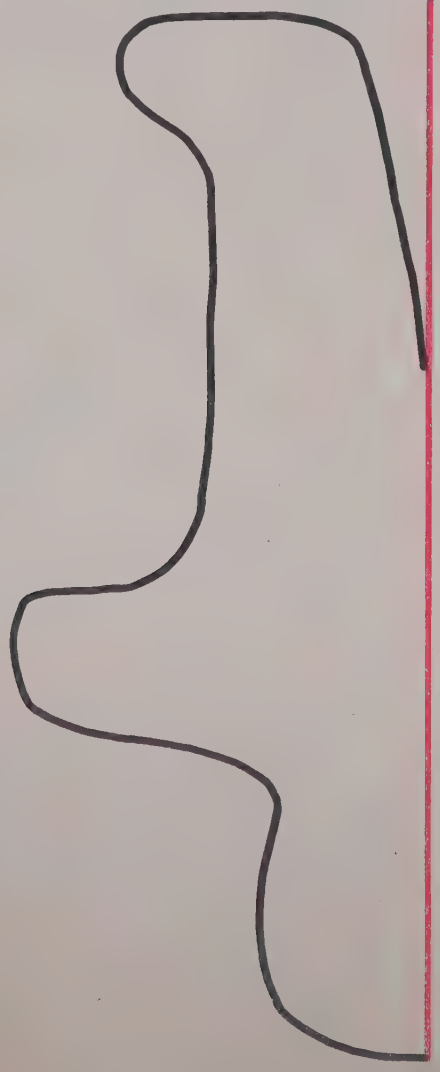
Cut off the bottom of this page.

Fold along the red line.

Cut out the figure.

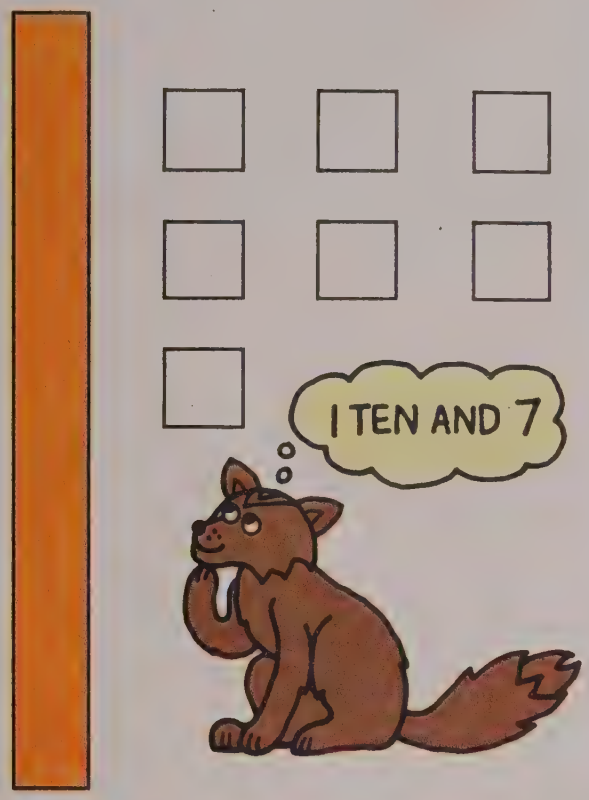
Unfold.

A symmetrical figure is formed. What does it look like?

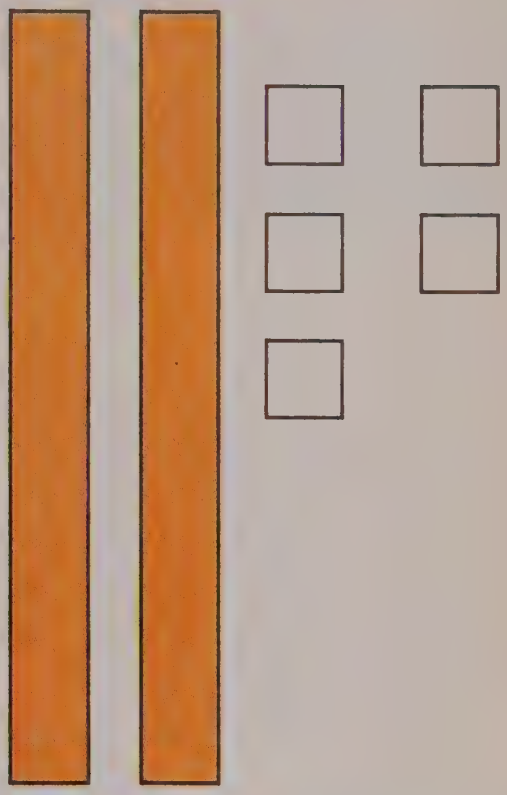


Let's do

Put your strips on these.



How many? ____



How many? ____

Put the sets together. Now how many? ____

Can you show this number with the fewest possible number of strips?

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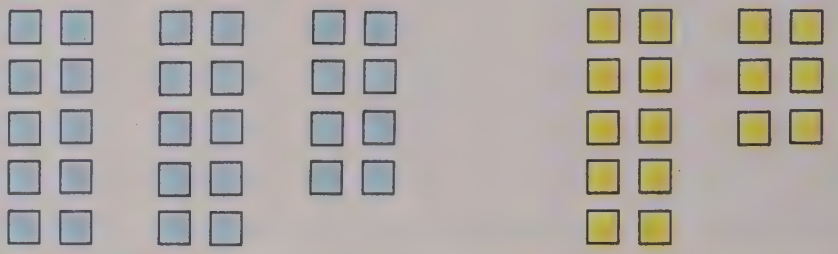
Let's talk

Explain how to find the sum.

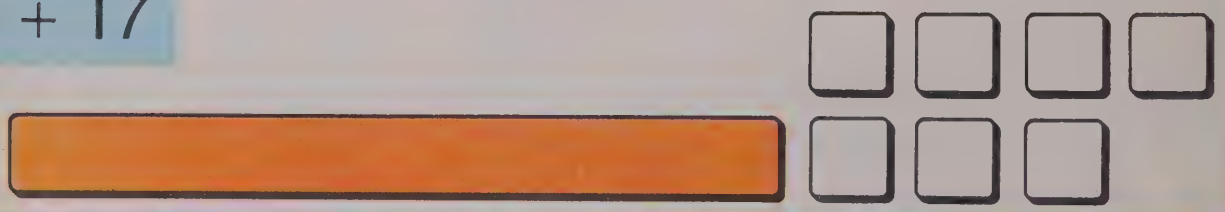
Using sets.

28 + 16



Using strips.

35 + 17



Using a number line.

46 + 8

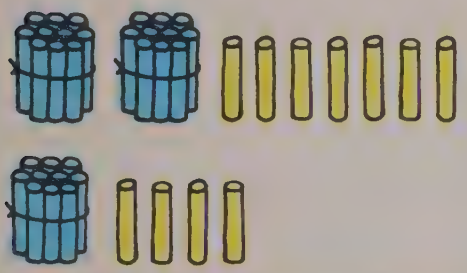
Using reasoning.

26 + 15

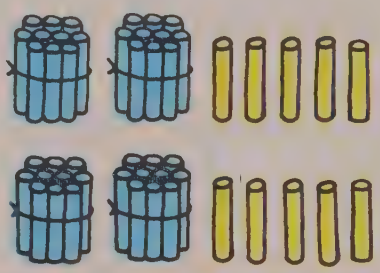
26	26	26	26	26
+2	+3	+4	+5	+15

Circle ten yellow sticks.

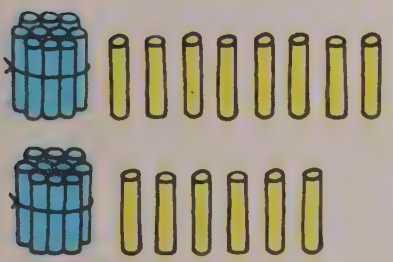
Can you use the sets to tell how many sticks?



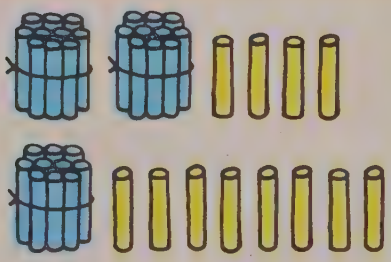
$$\begin{array}{r} 27 \\ +\ 14 \\ \hline \end{array}$$



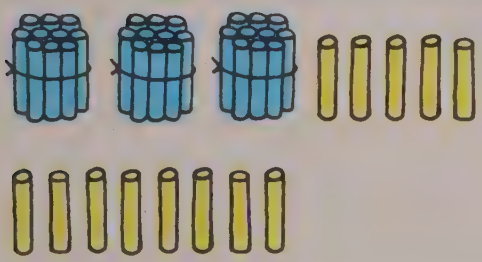
$$\begin{array}{r} 25 \\ +\ 25 \\ \hline \end{array}$$



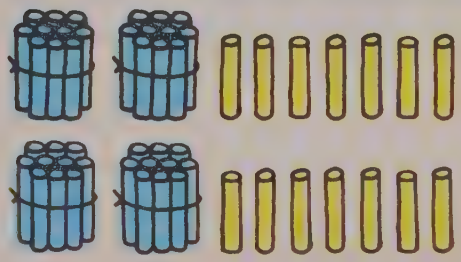
$$\begin{array}{r} 18 \\ +\ 16 \\ \hline \end{array}$$



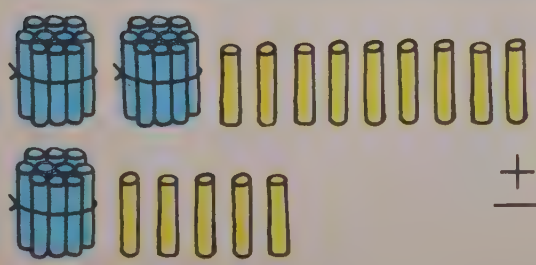
$$\begin{array}{r} 24 \\ +\ 18 \\ \hline \end{array}$$



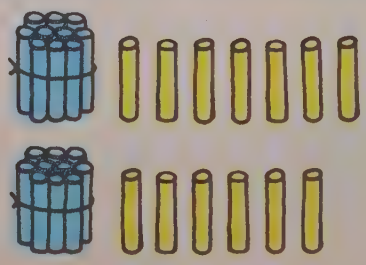
$$\begin{array}{r} 35 \\ +\ 8 \\ \hline \end{array}$$



$$\begin{array}{r} 27 \\ +\ 27 \\ \hline \end{array}$$



$$\begin{array}{r} 29 \\ +\ 15 \\ \hline \end{array}$$



$$\begin{array}{r} 17 \\ +\ 16 \\ \hline \end{array}$$

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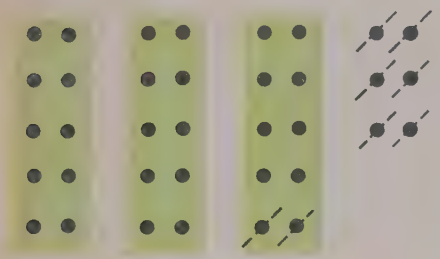
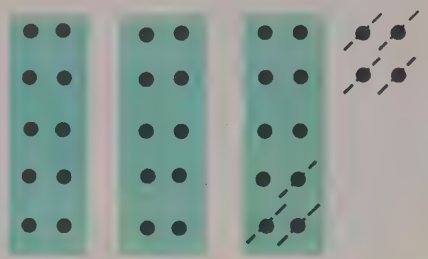
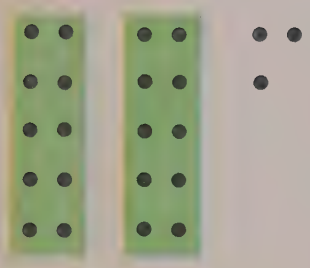
Mark out dots to help you subtract.



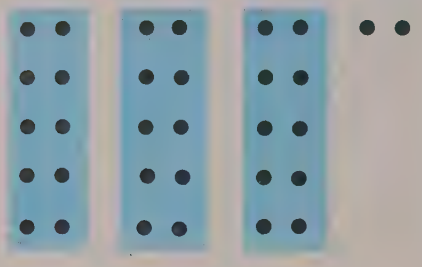
$$\begin{array}{r} 36 \\ -\ 8 \\ \hline \end{array}$$



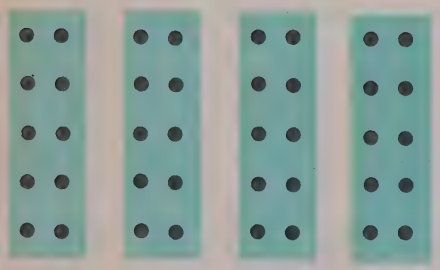
$$\begin{array}{r} 34 \\ -\ 7 \\ \hline \end{array}$$



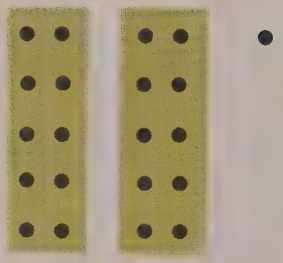
$$\begin{array}{r} 23 \\ -\ 4 \\ \hline \end{array}$$



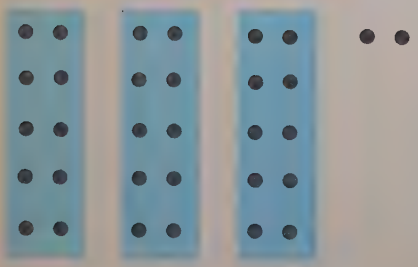
$$\begin{array}{r} 32 \\ -\ 8 \\ \hline \end{array}$$



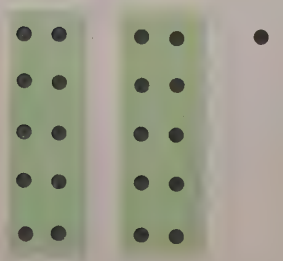
$$\begin{array}{r} 40 \\ -\ 6 \\ \hline \end{array}$$



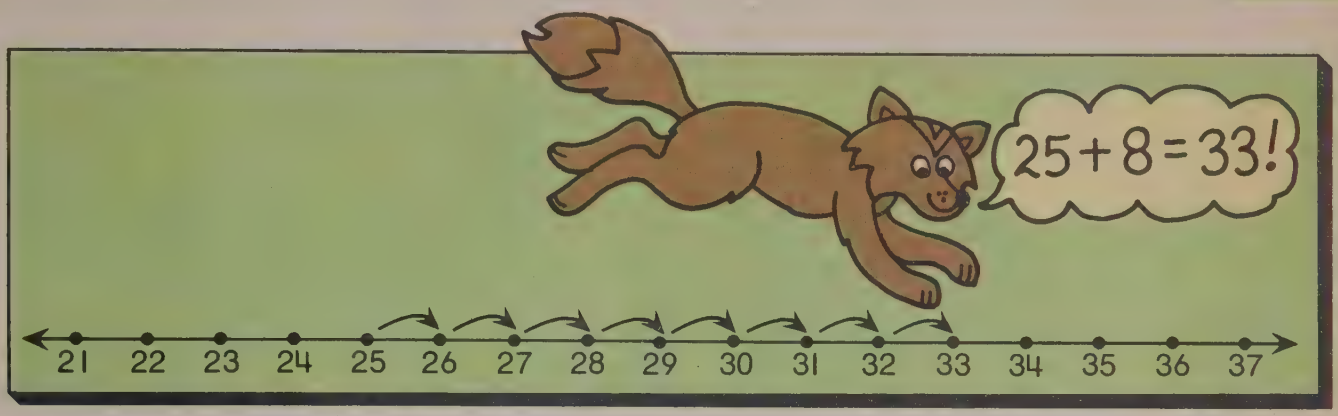
$$\begin{array}{r} 21 \\ -\ 4 \\ \hline \end{array}$$



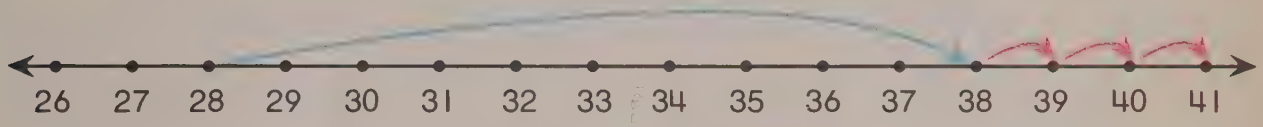
$$\begin{array}{r} 32 \\ -\ 5 \\ \hline \end{array}$$



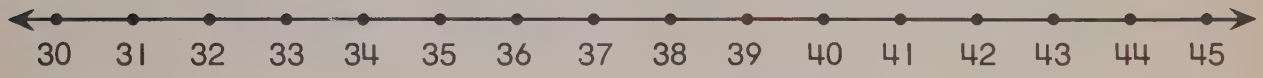
$$\begin{array}{r} 21 \\ -\ 9 \\ \hline \end{array}$$



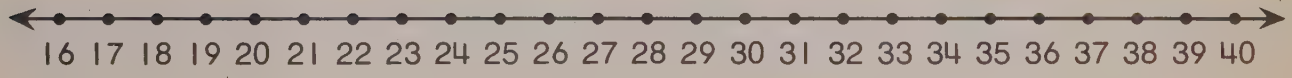
Use the number line to help you find the sums and differences.



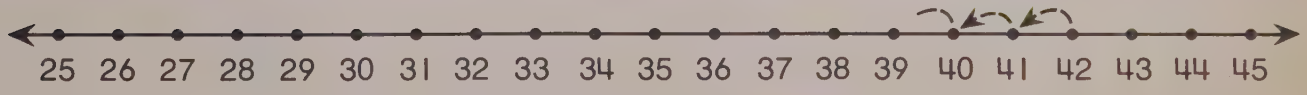
$28 + 13 =$



$35 + 7 =$



$18 + 19 =$



$42 - 6 =$

$43 - 15 =$

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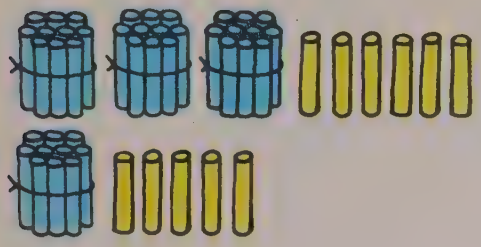
Find the sums and differences.

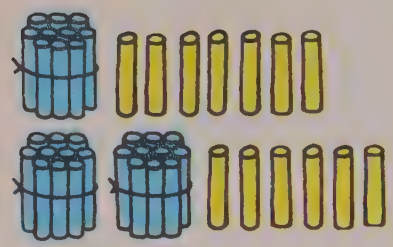
36 + 2 = 38	36 + 3 = 39	36 + 4	36 + 5	36 + 6	36 + 7
44 + 3	44 + 4	44 + 5	44 + 6	44 + 7	44 + 17
25 + 12	25 + 13	25 + 14	25 + 15	25 + 16	25 + 17
45 − 3	45 − 4	45 − 5	45 − 6	45 − 7	45 − 8
56 − 14	56 − 15	56 − 16	56 − 17	56 − 18	56 − 19
32 − 10	32 − 11	32 − 12	32 − 13	32 − 14	32 − 15

Show you know

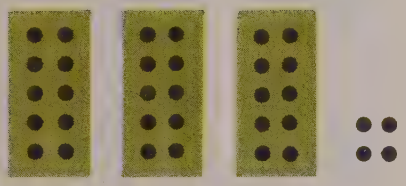
Solve.



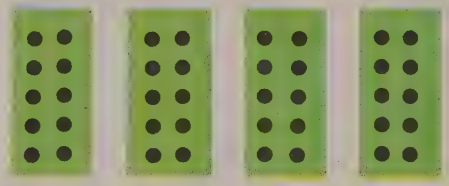
$$\begin{array}{r} 34 \\ +\ 15 \\ \hline \end{array}$$



$$\begin{array}{r} 17 \\ +\ 26 \\ \hline \end{array}$$



$$\begin{array}{r} 34 \\ -\ 6 \\ \hline \end{array}$$



$$\begin{array}{r} 41 \\ -\ 5 \\ \hline \end{array}$$

$19 + 16 = \square$

$32 - 17 = \square$

$$\begin{array}{r} 26 \\ +\ 12 \\ \hline \end{array} \qquad \begin{array}{r} 26 \\ +\ 13 \\ \hline \end{array} \qquad \begin{array}{r} 26 \\ +\ 14 \\ \hline \end{array} \qquad \begin{array}{r} 26 \\ +\ 15 \\ \hline \end{array} \qquad \begin{array}{r} 26 \\ +\ 16 \\ \hline \end{array} \qquad \begin{array}{r} 26 \\ +\ 17 \\ \hline \end{array}$$

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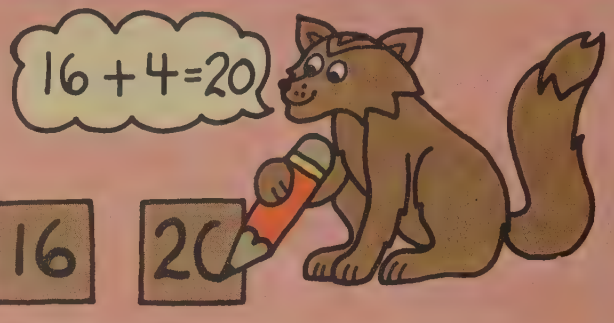
Let's have fun



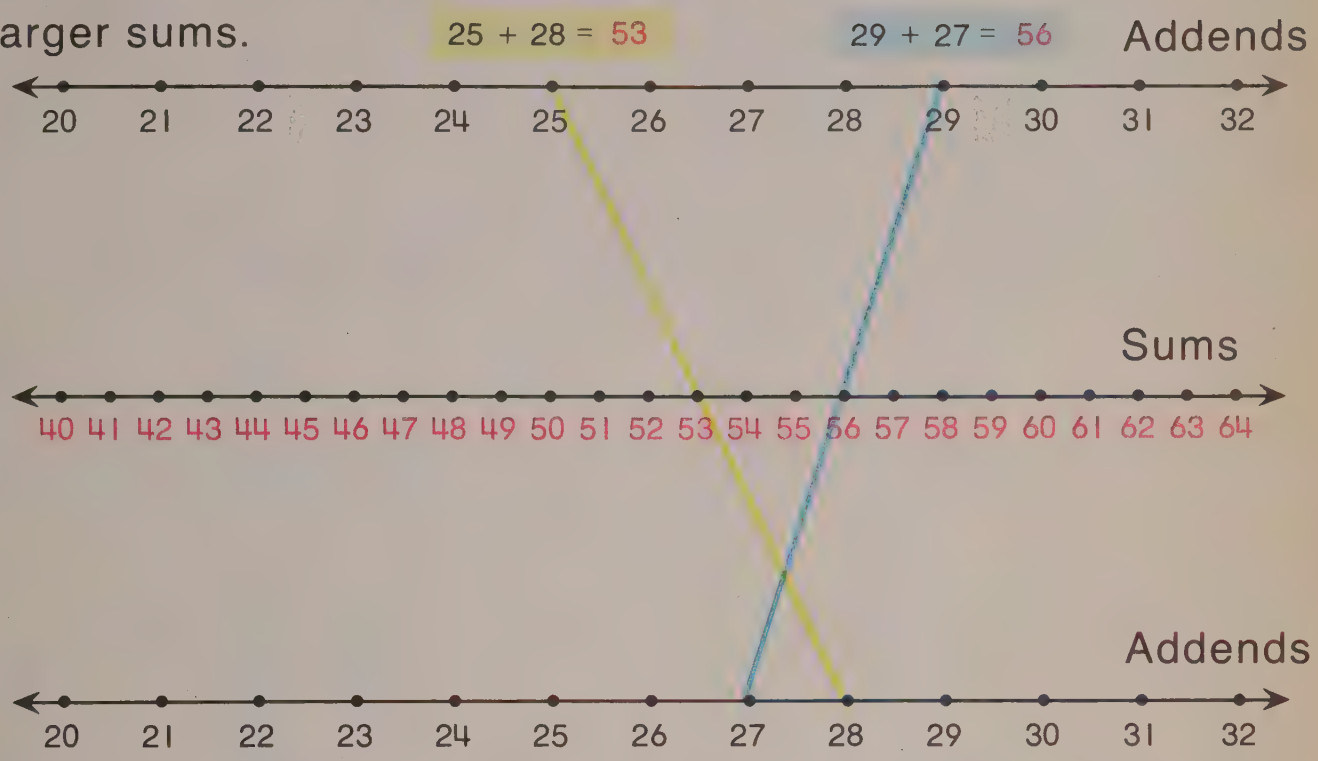
0 4 8 12 16 20

Can you give the next 3 numbers in each row?

0	1	2	3	4			
0	2	4	6	8			
1	3	5	7	9			
0	3	6	9	12			
0	5	10	15	20			
10	20	30	40	50			
5	15	25	35	45			
7	12	17	22	27			
23	21	19	17	15			
1	3	6	10	15			

Let's do

This is a **nomograph** for finding larger sums.



Find the sums. Use the nomograph.

24	22	26	25	31	28	29
+ 27	+ 29	+ 31	+ 27	+ 26	+ 23	+ 25

Find some pairs of numbers that add to the sums shown.

+	+	+	+	+	+	+
53	53	53	52	52	52	52

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Let's talk

Which sums are more than 29?

24	24	24	24	24	24
+ 3	+ 4	+ 5	+ 6	+ 7	+ 8

Which sums are more than 49?

35	35	35	35	35	35
+ 10	+ 12	+ 15	+ 17	+ 13	+ 18

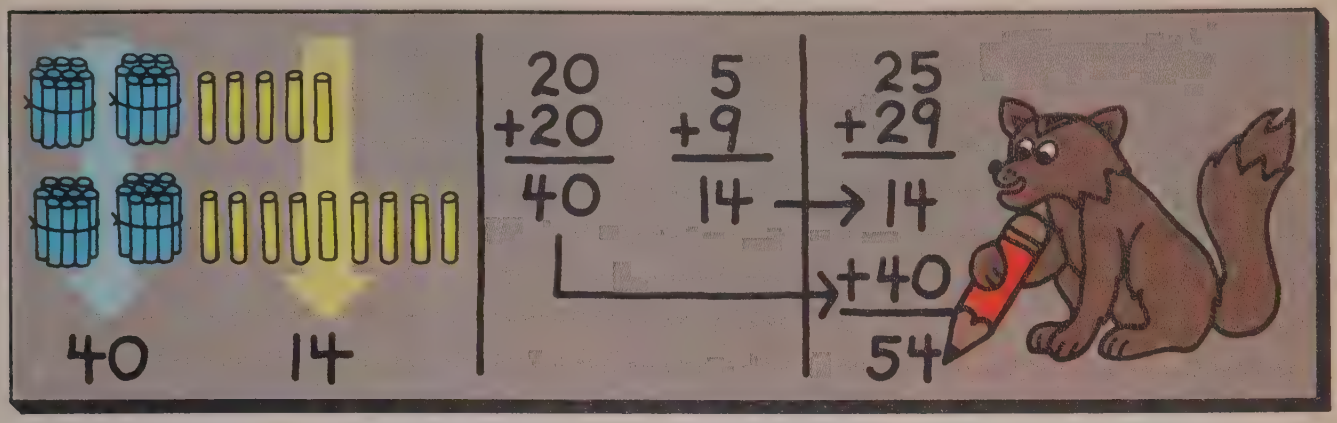
Which sums are more than 59?

23	23	25	25	25	23
+ 34	+ 38	+ 33	+ 36	+ 34	+ 39

Circle the correct sum.

32	38	21	27	18	14
+ 43	+ 47	+ 32	+ 36	+ 19	+ 13
75	75	53	53	27	27
85	85	63	63	37	37

27	22	41	46	12	19
+ 37	+ 32	+ 30	+ 35	+ 33	+ 36
54	54	71	71	45	45
64	64	81	81	55	55



Fill the blanks. Then find the sums.

40
+ 30
70

+
11

4
+ 3
11

70
+
81

20
+ 30

+

2
+ 3

+

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Find the sums.

$$\begin{array}{r} 38 \\ +\ 45 \\ \hline \\ +\ 70 \\ \hline \end{array}$$

$$\begin{array}{r} 52 \\ +\ 29 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ +\ 29 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ +\ 8 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ +48 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ +14 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ +44 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ +36 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ +\ 8 \\ \hline \\ + \\ \hline \end{array}$$

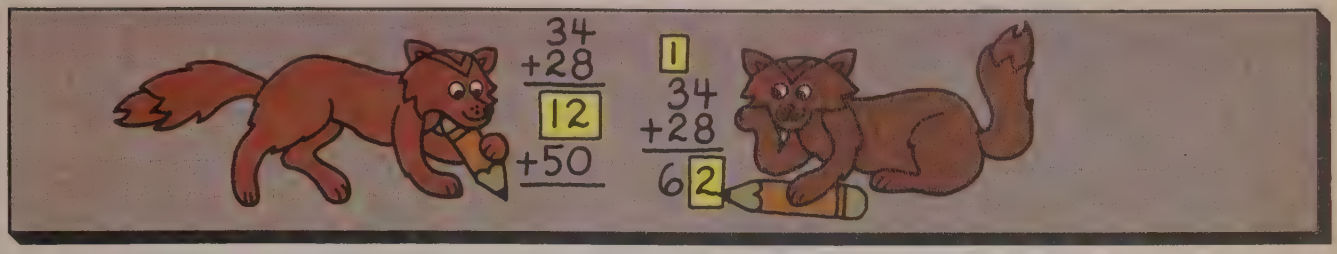
$$\begin{array}{r} 52 \\ +29 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ +35 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ +\ 7 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ +16 \\ \hline \\ + \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ +24 \\ \hline \\ + \\ \hline \end{array}$$



Find the sums.

$$\begin{array}{r} 58 \\ +\ 25 \\ \hline 13 \\ +\ 70 \\ \hline 83 \end{array}$$

shortcut

$$\begin{array}{r} 58 \\ +\ 25 \\ \hline 83 \end{array}$$

$$\begin{array}{r} 49 \\ +\ 36 \\ \hline \\ + \\ \hline \end{array}$$

shortcut

$$\begin{array}{r} 49 \\ +\ 36 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ +\ 5 \\ \hline \\ + \\ \hline \end{array}$$

shortcut

$$\begin{array}{r} 27 \\ +\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} 66 \\ +\ 24 \\ \hline \\ + \\ \hline \end{array}$$

shortcut

$$\begin{array}{r} 66 \\ +\ 24 \\ \hline \end{array}$$

$$\begin{array}{r} 78 \\ +\ 16 \\ \hline \\ + \\ \hline \end{array}$$

shortcut

$$\begin{array}{r} 78 \\ +\ 16 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ +\ 29 \\ \hline \\ + \\ \hline \end{array}$$

shortcut

$$\begin{array}{r} 55 \\ +\ 29 \\ \hline \end{array}$$

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Find the sums.

A

16 + 25	34 + 27	45 + 17
19 + 13	24 + 28	37 + 26

B

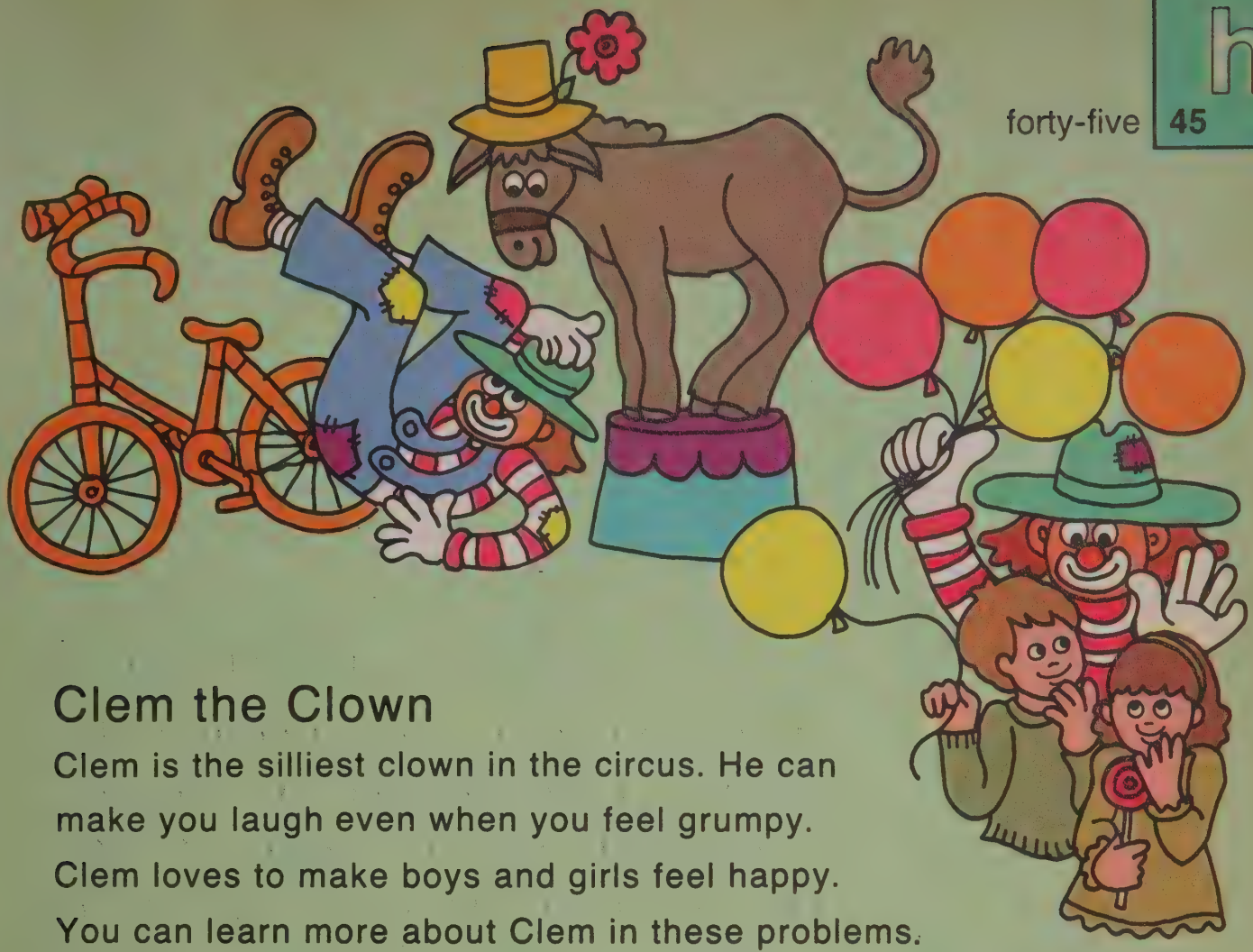
48 + 23	68 + 12	19 + 25
26 + 16	37 + 13	46 + 28

C

16 + 48	28 + 67	75 + 19
52 + 36	27 + 67	18 + 71
65 + 18	53 + 24	36 + 49

D

17 + 29	68 + 7	19 + 36
7 + 48	18 + 18	6 + 39
47 + 32	39 + 19	68 + 9



Clem the Clown

Clem is the silliest clown in the circus. He can make you laugh even when you feel grumpy. Clem loves to make boys and girls feel happy. You can learn more about Clem in these problems.

1. Each of Clem's shoes is 47 centimetres long. How long are they together, placed end to end? ____

2. Clem has 14 patches on his shirt and 17 on his pants. How many patches? ____

3. It takes Clem 25 minutes to put on his funny clothes and 15 minutes to put on his silly face. How long to get ready? ____

4. 37 boys and 39 girls from Lake School went to see Clem. How many children? ____

5. Clem tripped and fell on his nose 18 times. He fell on his seat 14 times. How many falls? ____

6. Clem gave away 36 red balloons and 28 blue balloons. How many? ____

7. Clem fell off his bike 9 times. He fell off the donkey 14 times. How many falls? ____

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Find the sums.

16 + 35	43 + 29	14 + 58	28 + 48	36 + 38	79 + 6
67 + 6	25 + 32	8 + 76	57 + 18	49 + 47	8 + 89
27 + 25	39 + 44	58 + 22	14 + 35	39 + 49	55 + 18

Complete each row.

6	+ 6	12	+ 6	18	+ 6		+ 6		+ 6	
7	+ 7	14	+ 7	21	+ 7		+ 7		+ 7	
8	+ 8	16	+ 8		+ 8		+ 8		+ 8	
9	+ 9		+ 9		+ 9		+ 9		+ 9	

Show you know

Find the sums.

26 + 35	38 + 44	42 + 19	38 + 25	57 + 17	26 + 67
25 + 27	13 + 27	48 + 15	39 + 14	26 + 30	48 + 24
71 + 18	8 + 25	35 + 9	37 + 38	48 + 39	67 + 3
67 + 18	46 + 36	27 + 59	6 + 89	19 + 19	36 + 47

Jan saved 47 cents. Then she earned 25 cents. How much now? ____

Jay scored 28 points in the first game and only 17 in the second. How many points? ____

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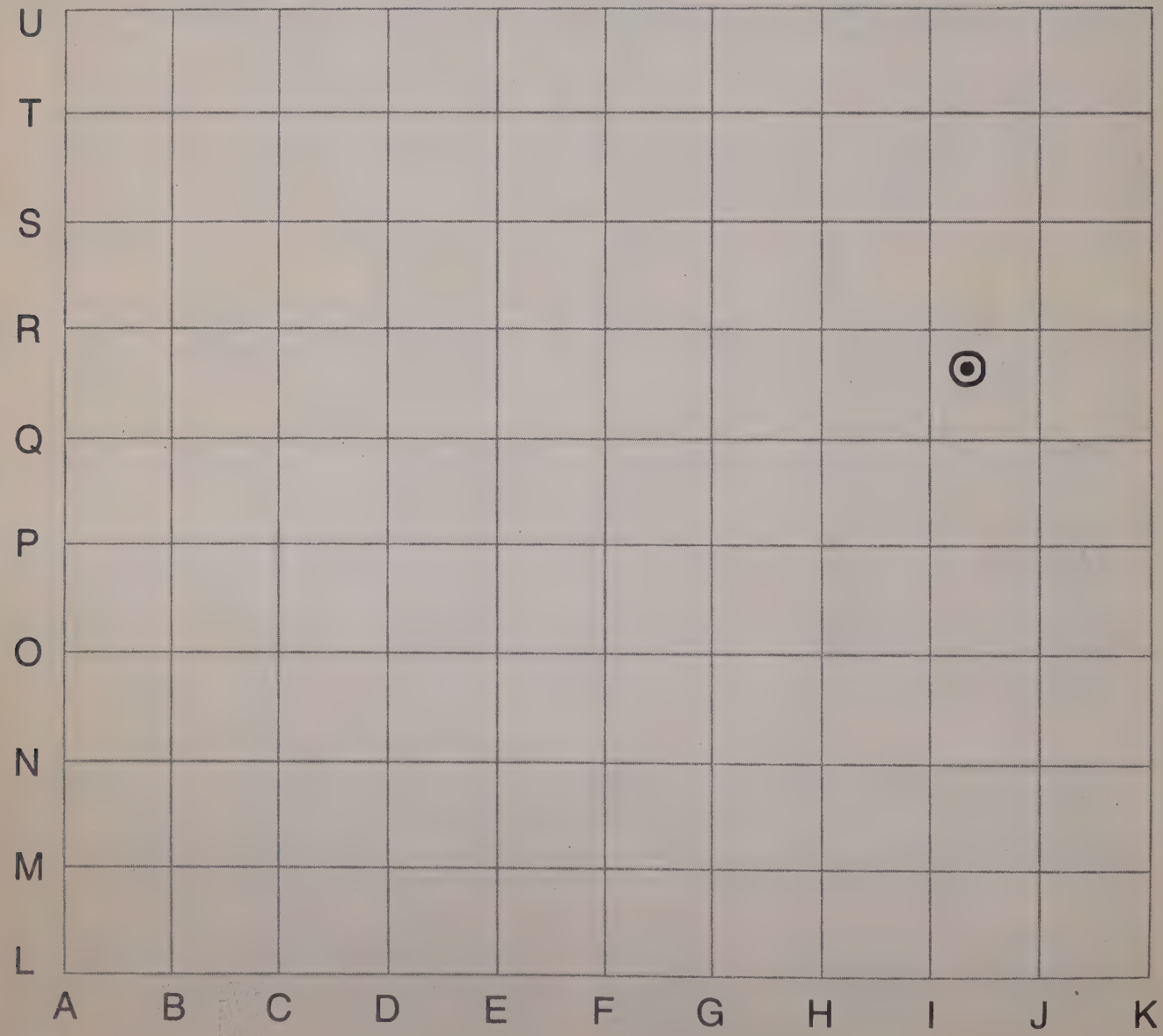
Let's have fun

Put a dot where these lines cross.	G T	I T	J S	J O	K P	K O	J N	I O	I M	G M	G P
Put this number beside the dot.	1	2	3	4	5	6	7	8	9	10	11

F P	E O	E M	D M	D P	C O	C M	B M	B R	A Q	B S	C T	G T	F R	G Q	I Q	H T
12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28

Connect the dots in order.



Let's do

Find as many differences as you can. Put a ring around the ones that "cannot be done."

3 − 5	13 − 5 = 8	1 − 7	11 − 7	12 − 6	2 − 6
15 − 6	5 − 6	4 − 5	14 − 5	13 − 4	3 − 4
16 − 8	6 − 8	5 − 7	15 − 7	12 − 8	2 − 8

Can you make up some subtraction problems that "cannot be done"?

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Let's talk

Which differences are less than 30?

35	35	35	35	35	35
−2	−3	−4	−5	−6	−7

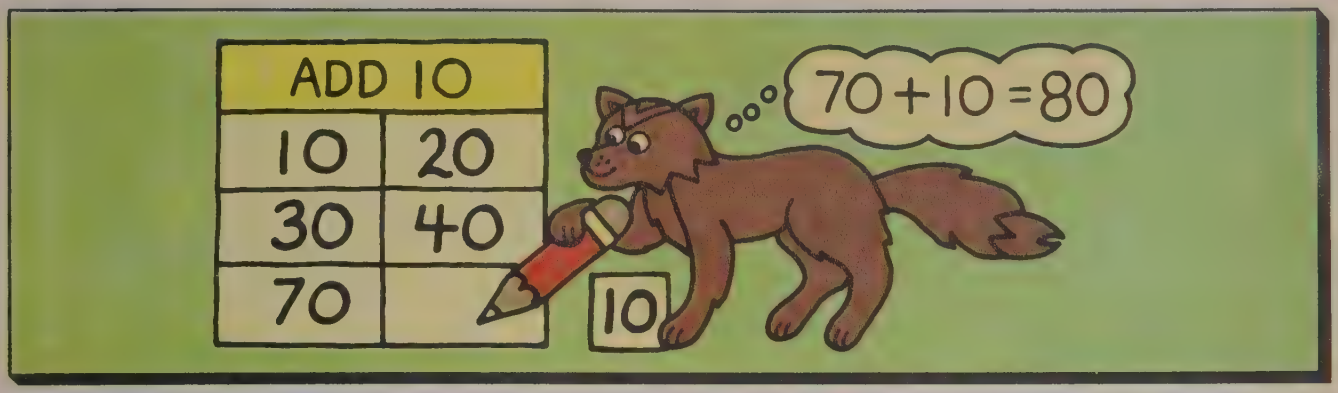
Which differences are less than 40?

46	46	46	46	46	46
−4	−5	−6	−7	−8	−9

One answer is correct. Circle the correct difference.

34	55	63	74	26	33
−6	−7	−8	−6	−9	−5
32	52	55	68	23	32
or	or	or	or	or	or
(28)	48	65	72	17	28

24	35	43	37	56	55
−7	−7	−6	−8	−9	−8
23	28	37	31	47	53
or	or	or	or	or	or
17	22	43	29	43	47



Complete the table.

Add 10	
40	50
20	
60	
50	
80	

Solve the equations.

50 = 40 + 10

30 = 20 + ___

70 = 60 + ___

60 = 50 + ___

Solve the equations.

50 = 40 + 10

52 = 40 + 12

56 = 40 + ___

70 = 60 + ___

73 = 60 + ___

78 = 60 + ___

30 = 20 + ___

31 = 20 + ___

34 = 20 + ___

60 = 50 + ___

64 = 50 + ___

65 = 50 + ___

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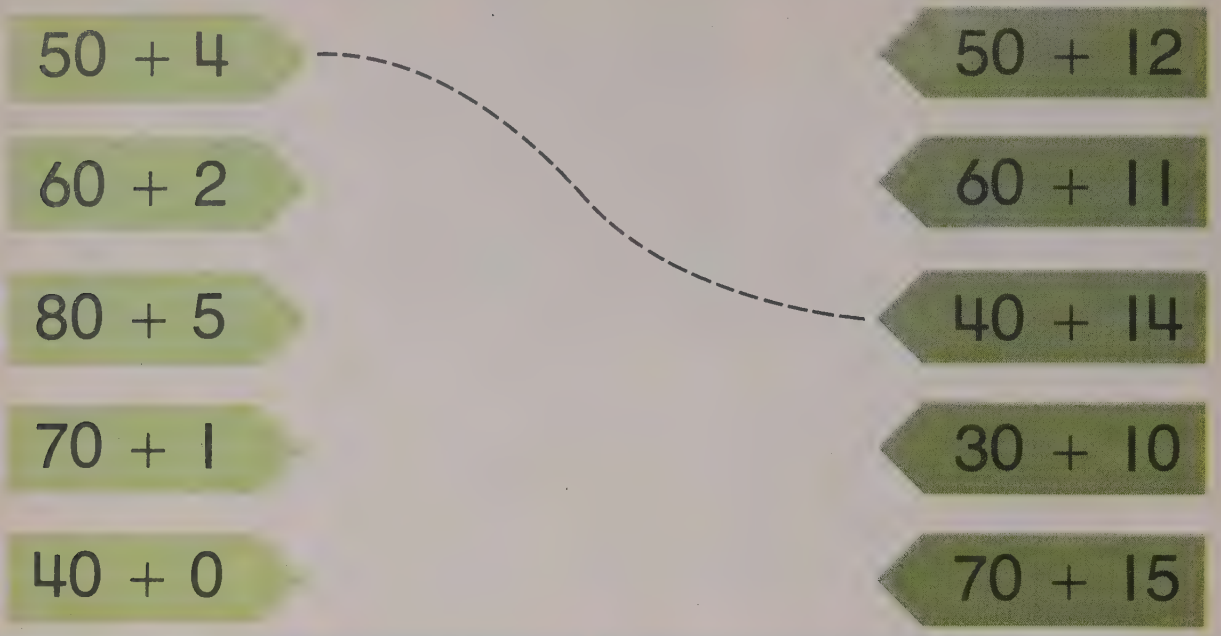
Complete the matching.



Solve the equations.

43 = 30 + ___

36 = 20 + ___

52 = 40 + ___

61 = 50 + ___

74 = 60 + ___

45 = 30 + ___

93 = 80 + ___

70 = 60 + ___

32 = ___ + 12

47 = ___ + 17

62 = 50 + ___

73 = ___ + 13

80 = ___ + 10

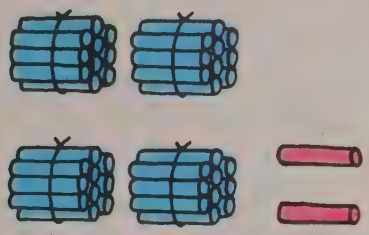
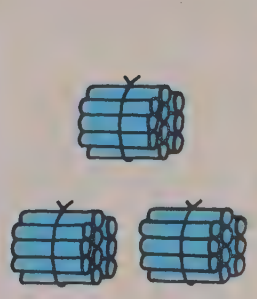
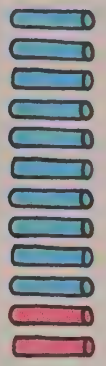
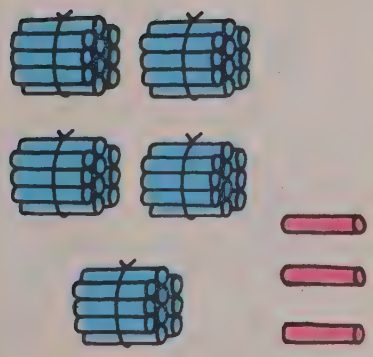
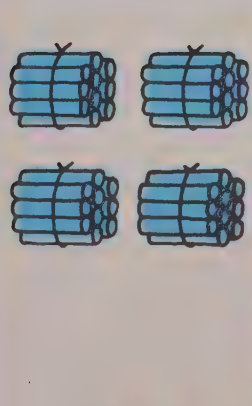
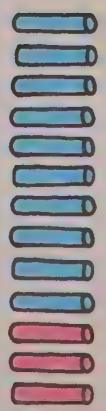
54 = 40 + ___

91 = ___ + 11

75 = ___ + 15

$\begin{array}{r} 33 \\ -17 \\ \hline \end{array}$	$\begin{array}{r} 30 \\ -10 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ -7 \\ \hline \end{array}$	$\begin{array}{r} 20 \\ -10 \\ \hline 10 \end{array}$	$\begin{array}{r} 13 \\ -7 \\ \hline 6 \end{array}$	$\begin{array}{r} 33 \\ -17 \\ \hline 16 \end{array}$

Find the differences.

					
$\begin{array}{r} 42 \\ -15 \\ \hline \end{array}$	$\begin{array}{r} 40 \\ -10 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ -5 \\ \hline ? \end{array}$	$\begin{array}{r} 30 \\ -10 \\ \hline 20 \end{array}$	$\begin{array}{r} 12 \\ -5 \\ \hline 7 \end{array}$	$\begin{array}{r} 42 \\ -15 \\ \hline 27 \end{array}$
					
$\begin{array}{r} 53 \\ -36 \\ \hline \end{array}$	$\begin{array}{r} 50 \\ -30 \\ \hline \end{array}$	$\begin{array}{r} 3 \\ -6 \\ \hline ? \end{array}$	$\begin{array}{r} 40 \\ -30 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ -6 \\ \hline \end{array}$	$\begin{array}{r} 53 \\ -36 \\ \hline \end{array}$

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Find the differences for each ▢.

74 − 36	70 − 30	4 − 6 ?	60 − 30 ▢	14 − 6 ▢	74 − 36 ▢
92 − 17	90 − 10	2 − 7 ?	80 − 10 ▢	12 − 7 ▢	92 − 17 ▢
60 − 23	60 − 20	0 − 3 ?	50 − 20 ▢	10 − 3 ▢	60 − 23 ▢
53 − 5	50 − 0	3 − 5 ?	40 − 0 ▢	13 − 5 ▢	53 − 5
81 − 25	80 − 20	1 − 5 ?	70 − 20 ▢	11 − 5 ▢	81 − 25 ▢

Write the numeral for each ☐.

To think of 63 as 50 + 13, we write 5 13 / 6 3.

To think of 46 as 30 + 16, we write 3 16 / 4 6.

To think of 34 as 20 + 14, we write ☐☐ / 3 4.

To think of 82 as 70 + 12, we write ☐☐ / 8 2.

To think of 57 as 40 + 17, we write ☐☐ / 5 7.

To think of 75 as 60 + 15, we write ☐☐ / 7 5.

To think of 31 as 20 + 11, we write ☐☐ / 3 1.

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Find the difference for each .

	60 + 14		40 + 12
74 − 26	6 14 ~~7~~ ~~4~~ − 26 48	52 − 14	4 12 ~~5~~ ~~2~~ − 14
50 − 37	4 10 ~~5~~ ~~0~~ − 37	65 − 7	5 15 ~~6~~ ~~5~~ − 7
83 − 44	7 13 ~~8~~ ~~3~~ − 44	46 − 37	3 16 ~~4~~ ~~6~~ − 37

6 17 ~~6~~ ~~7~~ − 28 39	83 − 37	60 − 16	26 − 14	74 − 8	88 − 29
71 − 15	64 − 21	33 − 16	47 − 29	82 − 34	54 − 26

Find the differences.

31 − 14	54 − 38	42 − 24	62 − 42	51 − 23	40 − 13
63 − 46	25 − 17	91 − 36	72 − 5	27 − 16	32 − 13
34 − 17	52 − 46	43 − 17	24 − 6	41 − 15	55 − 23
23 − 14	26 − 18	80 − 52	61 − 32	22 − 7	44 − 25
56 − 37	64 − 39	33 − 8	45 − 26	53 − 25	65 − 38

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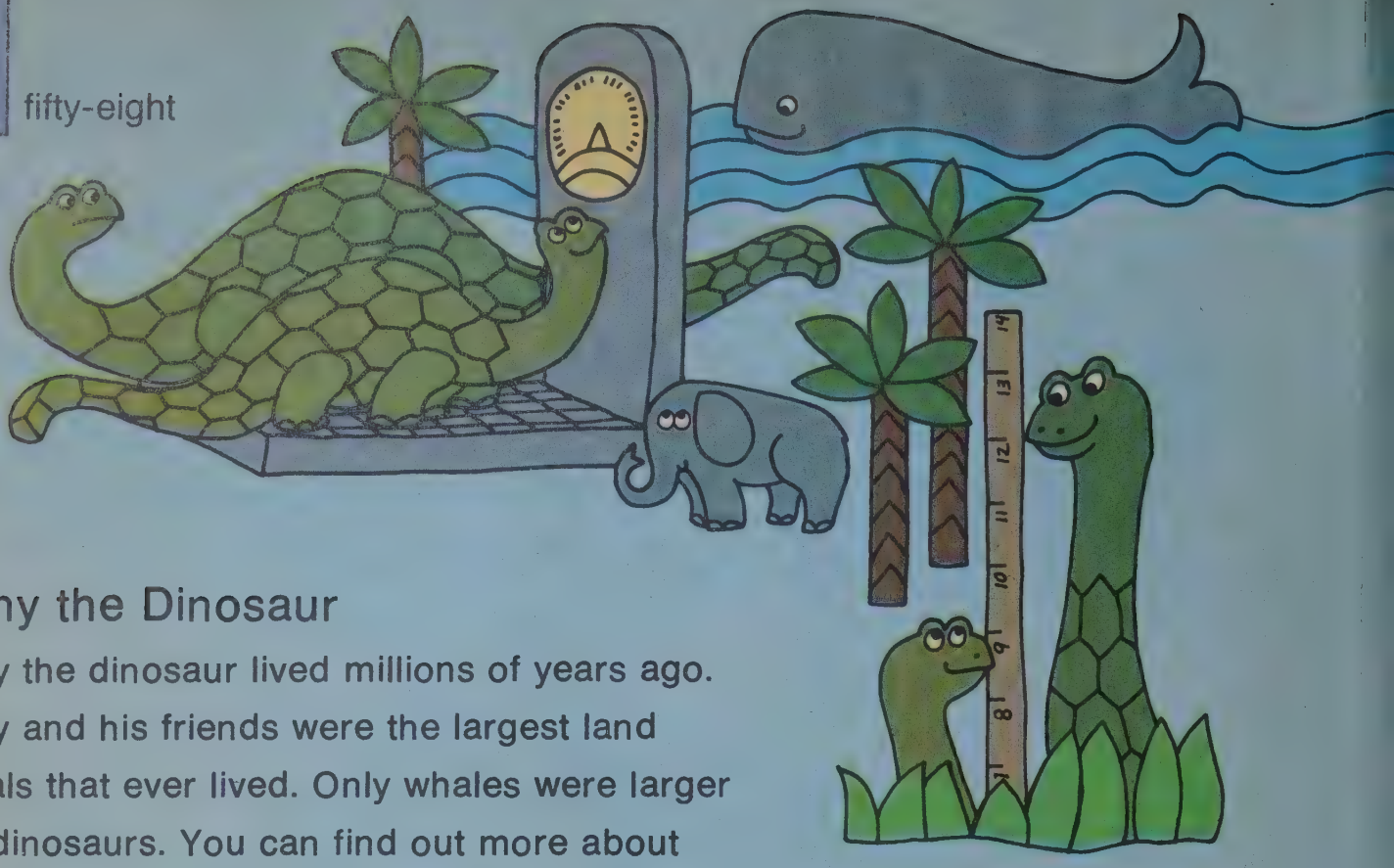

Danny the Dinosaur

Danny the dinosaur lived millions of years ago. Danny and his friends were the largest land animals that ever lived. Only whales were larger than dinosaurs. You can find out more about Danny in these problems.

1. Danny was 17 metres long. His father was 25 metres long. How much longer was Danny's father? ____

2. Danny was 9 metres tall. His father was 13 metres tall. How much taller? ____

3. Danny and his father weighed 73 tonnes together. His father weighed 44 tonnes. How much did Danny weigh? ____

4. Danny's tail was 13 metres long. His neck was 8 metres. How much longer was his tail? ____

5. Danny's father weighed 44 tonnes. A full-grown elephant weighs only 6 tonnes. How much more did Danny's father weigh? ____

6. A full-grown whale can weigh 92 tonnes. Danny's father weighed 44 tonnes. How much more does the whale weigh? ____

7. Danny could eat 2 tonnes of food a day. His father could eat 3 times that much How many metric tonnes could his father eat? ____

Find the sums and differences.

16 +27	45 +36	54 +18	62 −27	41 −16	73 −34
63 +27	75 +14	27 +7	81 −23	65 −42	94 −85
18 +47	9 +43	34 +29	82 −8	56 −29	42 −17

Find the missing digits.

□7 +3□ 63	4□ +29 □7	75 +□□ 90	5□ −□4 38	□1 −27 3□	□3 −2□ 59

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Lori and Bob

Lori and Bob are second graders. They are about the same size and age as you. You can learn more about them **(and maybe yourself)** if you work these problems.

1. Lori weighs 26 kilograms. Bob weighs 23 kilograms. How much do they weigh together? ____

2. Lori is 96 centimetres tall. Bob's little sister is 58 centimetres How much taller is Lori? ____

3. Lori's hand and wrist have 27 bones. How many bones in both her hands and wrists? ____

4. Bob's ankle and foot have 26 bones. How many bones in both his ankles and feet? ____

5. About 15 kilograms of Lori's body is water. About 17 kilograms of Bob's is water. How much water in both? ____

6. Bob's muscles weigh about 12 kilograms. His father's muscles weigh about 35 kilograms. How much more do his father's muscles weigh? ____

7. Lori's heart beats 82 times a minute. Bob's beats 78. How many more times does Lori's heart beat in a minute? ____

Show you know

Find the differences.

52 − 17	71 − 45	63 − 36	74 − 29	81 − 56	34 − 17
41 − 14	82 − 25	94 − 65	62 − 38	53 − 14	72 − 24
72 − 68	94 − 55	63 − 9	61 − 43	95 − 28	77 − 64
81 − 33	74 − 36	52 − 7	83 − 37	56 − 24	35 − 15

Sandy had 55 cents. She spent 37 cents. How much does she have now? ____

Ben had 24 baseball cards. He collected 18 more. How many does he have now? ____

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START
CONNECT THE DOTS.
START WITH 23

Looking back

Find the sums.

$8 + 5 = \square$ $\quad$ $6 + 8 = \square$

$7 + 7 = \square$ $\quad$ $5 + 7 = \square$

$9 + 3 = \square$ $\quad$ $8 + 9 = \square$

$9 + 9 = \square$ $\quad$ $8 + 4 = \square$

Find the differences.

$12 - 8 = \square$ $\quad$ $16 - 7 = \square$

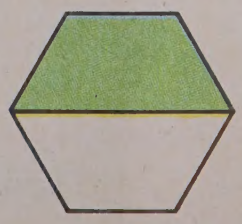
$15 - 6 = \square$ $\quad$ $13 - 9 = \square$

$17 - 8 = \square$ $\quad$ $11 - 5 = \square$

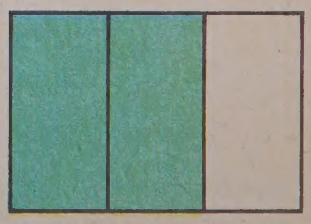
$14 - 7 = \square$ $\quad$ $14 - 9 = \square$

Ring the fraction for the colored part.

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$



$\frac{1}{4}$ $\frac{1}{2}$ $\frac{3}{4}$ $\frac{1}{3}$



$\frac{1}{2}$ $\frac{1}{3}$ $\frac{2}{3}$ $\frac{2}{4}$

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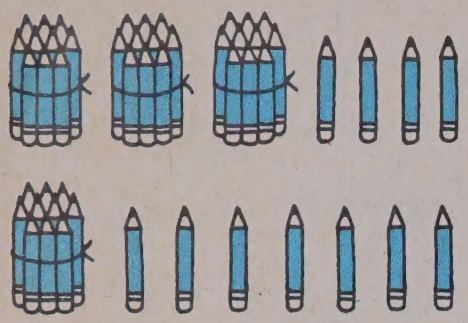
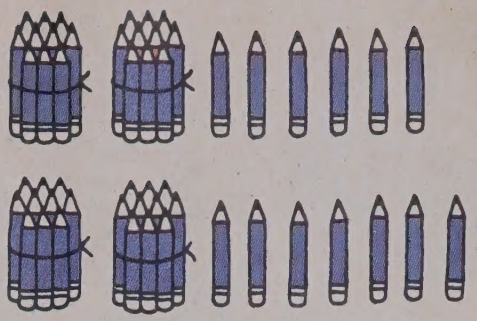
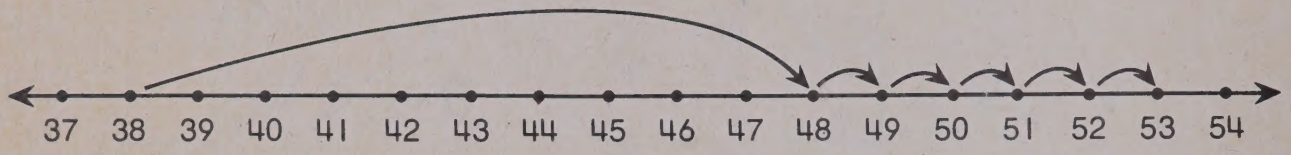
Find the sums.



$$\begin{array}{r} 34 \\ +\ 17 \\ \hline \end{array}$$

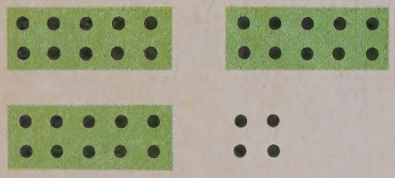


$$\begin{array}{r} 26 \\ +\ 27 \\ \hline \end{array}$$

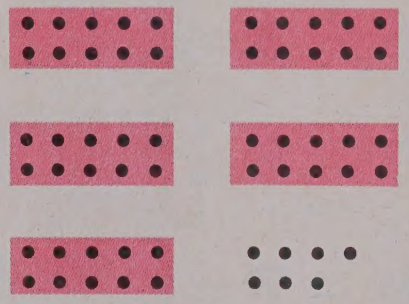


$38 + 15 = \square$

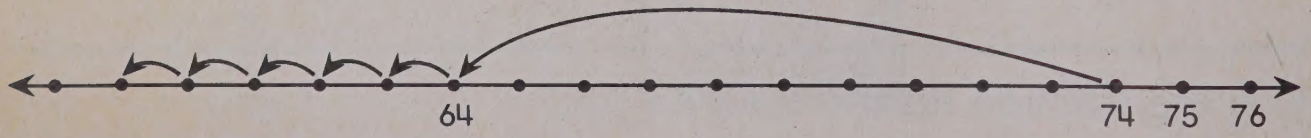
Find the differences.



$$\begin{array}{r} 34 \\ -\ 18 \\ \hline \square \end{array}$$



$$\begin{array}{r} 57 \\ -\ 29 \\ \hline \square \end{array}$$



$74 - 15 = \square$

John had 16 cents. He earned 25 more cents. How much does he have?

____

Tom read 23 pages in his library book. Mary read 17 pages. How many more pages did Tom read?

____

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